



Catalog No. 57 Issued January, 1957

GRAY-BONNEY

The Canadian Made Hand Tool Line

for...

AUTOMOTIVE


AVIATION

REFRIGERATION

INDUSTRIAL

AGRICULTURAL

MARINE

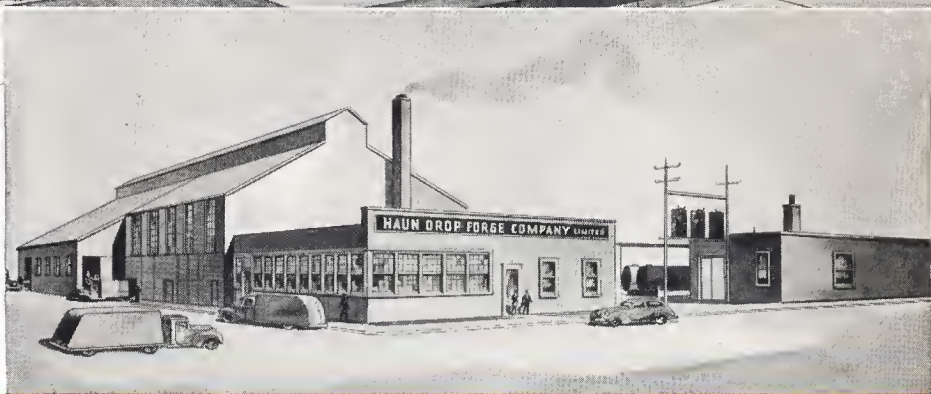


GRAY-BONNEY TOOL COMPANY, LIMITED

St. Clarens and Dupont

TORONTO - CANADA

Subsidiary of GRAY FORGINGS AND STAMPINGS LIMITED



Gray-Bonney Manufacturing Plants
at Toronto and Welland

The Home of Gray-Bonney Tools



1957

"FORTY-FOURTH"
ANNIVERSARY

★

A Canadian Enterprise Using Products
of Canadian Mines and Industries

GRAY - BONNEY . . . A symbol of Canadian achievement favorably known to industry and other users in all lands where Canada's commerce grows.

Gray-Bonney Hand Tools are produced from the finest steels and alloys backed by creative engineering and time tested designs.

This modern progressive manufacturing industry is entirely owned and operated by Canadians proud of their forty years of achievement in the production and marketing of quality hand tools. You Can't Buy Better Tools.

A quality tool line priced right supported by equitable policies related to distribution and guarantee.

★

GRAY - BONNEY TOOL COMPANY LIMITED

Subsidiary of GRAY FORGINGS and STAMPINGS LIMITED

TORONTO - CANADA



Warranty on Gray-Bonney Tools

STATEMENTS OF POLICY

1. **Guarantee** — All Gray-Bonney Tools are guaranteed against defects in workmanship or material, and any tool failing to live up to this guarantee will be replaced or repaired free of charge.
2. **Abuse** — Free repair or replacement cannot be made if inspection shows that a tool has been hammered, used with any device for adding extra leverage, ground thinner, changed in design, or broken from use for purposes other than those for which it was designed.
3. **Non-Replaceable Tools** — Because of their nature, the following tools are liable to abuse and are not subject to free replacement: 00 A, 001, 307, 308, 499, 517, 525, 2586, B 21, CP 1, CP 2, CP 3, CP 4, E 02, E 03, FT 57, M 5, RF 6, RF 16, RF 18, RF 71, RF 72, RF 73, SP 1, SP 2, T 34, WP 1, WP 2, WP 3, and WP 4. Impact sockets are not guaranteed.
4. **Normal Wear and Tear** —

Ratchets	Adjustable Wrenches
Flex Handles	Screwdrivers
Universal Joints	Punches and Chisels
Wheel Pullers	Buckingham Thread Restorers

Tools of the above types which show signs of wear from long use can usually be reconditioned by replacement of worn parts or regrinding cutting edges. Such tools may be sent in to the jobber or to the factory for repair, and they will be repaired if possible and a service charge made.

• These items are not guaranteed.

WHOLESALE RETURNS

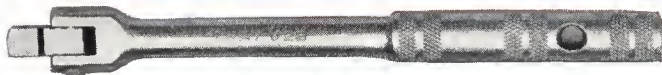
Gray-Bonney Tools acceptable for return under conditions stated hereunder will be confined to those hand tools listed in this catalogue or subsequent issues thereof. Such tools will be of current design, finishes and markings.

During each October or November wholesalers may submit written information on tools eligible for return and considered surplus in inventory. Written return authorization will be forwarded to the wholesaler subject only to prepaid transportation and other conditions stated herein. Valuation of tools for return will not exceed at current factory cost any amount greater than ten per cent of purchases from us during the previous twelve month period. All returns are to be made during December only and a handling charge of ten per cent will apply. Factory allowance will be in form of bank credit to apply against current or future purchases from us.



GRAY-BONNEY

1/4" Drive Attachments and Sets



V 26



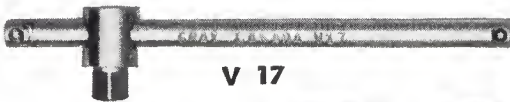
V 27



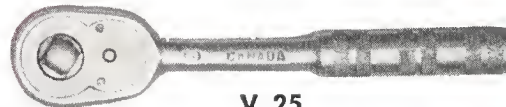
V 606



517



V 17



V 25



V 602



4217



4216



001



V 36



V 780

DESCRIPTION OF ABOVE HANDLES AND ATTACHMENTS

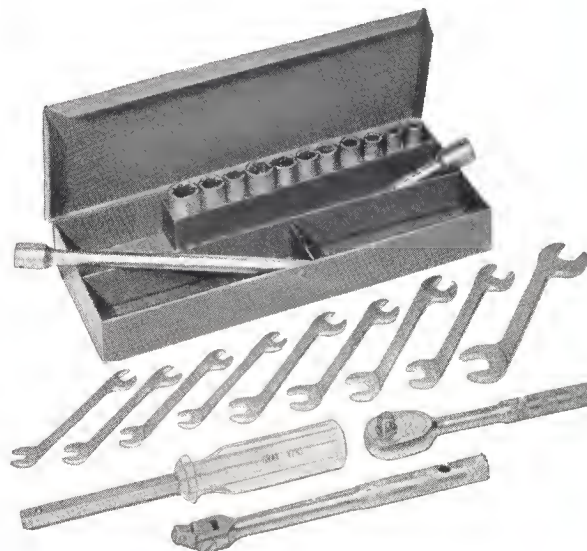
No.	Description	No.	Description	No.	Description
V26	5 3/4" Flex. Handle	V36	Socket for changing Distributor Points on all 1953 and later models of Chevrolet cars and is not guaranteed	V27	Cross Bar 3 1/2"
V606	6" extension	4216	3/8" Sq. Female; 1/4" Sq. Mole Adoptor.	517	Ignition Pliers
V17	sliding "T" Handle	4217	1/4" Sq. Female; 3/8" Sq. Mole Adoptor.	V25	1/4" Reversible Ratchet, 4 3/8" long
V602	2" extension			001	Pocket Ignition Screwdriver
				V780	1/4" Drive Insulated Handle, 6" long.

DESCRIPTION OF VS 25 SET

Contains 25 Pieces — 3/16" to 1/2". Approx. Weight 2 1/2 lbs. A complete set of small wrenches, containing an excellent range of 1/4" drive sockets and attachments, and also all the necessary open end engineer's type wrenches for ignition and small repair work. Packed in a strong metal box. No. VS30B.

No.	Description
V6	3/16" S.H. Socket
V7	7/32" " "
V8	1/4" " "
V9	9/32" " "
V10	5/16" " "
V11	11/32" " "
V12	1/4" " "
V14	7/16" " "
VS8	1/4" D. Sq. S.H. Socket
VS10	5/16" " " "
VS12	3/8" " " "
V25	Rev. Rotchet 4 3/8"
V26	Flex Handle 5 3/4"
V602	2" Extension
V606	6" Extension
V780	6" Insulated Handle
	Ignition Wrenches
E14	13/64" and 15/64"
E16	15/64" and 13/64"
E18	7/32" and 1/4"
E20	1/4" and 7/32"
E22	9/32" and 5/16"
E24	5/16" and 9/32"
E26	11/32" and 3/8"
E28	3/8" and 11/32"
E30	7/16" and 1/2"

VS 25 Set



A Tool For Every Need



1/4" Drive Socket Sets

EXTRA SMALL SERIES

These midget sockets and attachments are the ultimate in precision design and manufacture. The small head reversible ratchet, tiny handles and extra thin wall lock-on sockets are produced from the finest Chrome-Vanadium alloy steels and all are chrome plated. Created for motor tuneup specialists and those who service starting — lighting — ignition — instruments and radio. They will prove a welcome addition to any tool equipment. Each individual piece available separately from open stock.

No. VS 14 Set

Contains 14 Pieces — 3/16" to 3/8"

Approx. Weight 1 1/4 lbs.



A dandy pocket size kit of sockets and attachments with reversible ratchet for turning small nuts. Supplied in strong attractively finished metal box measuring 6 3/16" x 2" x 1/2". Contents listed in the table below.

No.	Description	No.	Description
V 6	3/16" S.H. Socket	V 14	7/16" S.H. Socket
V 7	7/32" " "	VS 8	1/4" D.Sq. Socket
V 8	1/4" " "	VS 10	5/16" " "
V 9	9/32" " "	VS 12	3/8" " "
V 10	5/16" " "	V 25	Rev. Ratchet 4 3/8"
V 11	11/32" " "	V 26	Flex. Handle 5 3/4"
V 12	3/8" " "	V 27	Cross Bar 3 1/2"

No. VS 13 Set

Contains 13 Pieces — 3/16" to 3/8"

Approx. Weight — 1 lb. 2 oz.

This is an ideal set of small sockets and attachments for electrical, carburetor or any line of work where small nuts and bolts have been turned. Packed in our No. VS 14 B Box.

No.	Description	No.	Description
V 6	3/16" S.H. Socket	V 12	3/8" S.H. Socket
V 7	7/32" " "	V 14	7/16" " "
V 8	1/4" " "	VS 8	1/4" D.Sq. Socket
V 9	9/32" " "	VS 10	5/16" " "
V 10	5/16" " "	VS 12	3/8" " "
V 11	11/32" " "	V 26	Flex Handle 5 3/4"
		V 27	Cross Bar 3 1/2"

No. VS 31 Set

Contains 31 Pieces — 3/16" to 1/2"

Approx. Weight 2 3/4 lbs.



An unusually complete set of extra small sockets and attachments, plus an assortment of miniature box and open end wrenches, feeler gauge, ignition plier and pocket size screw driver that any mechanic will find useful for electrical, radio and other small work. Packed in attractively finished metal box measuring 8 7/16" x 3 7/16" x 1", No. VS 303 B.

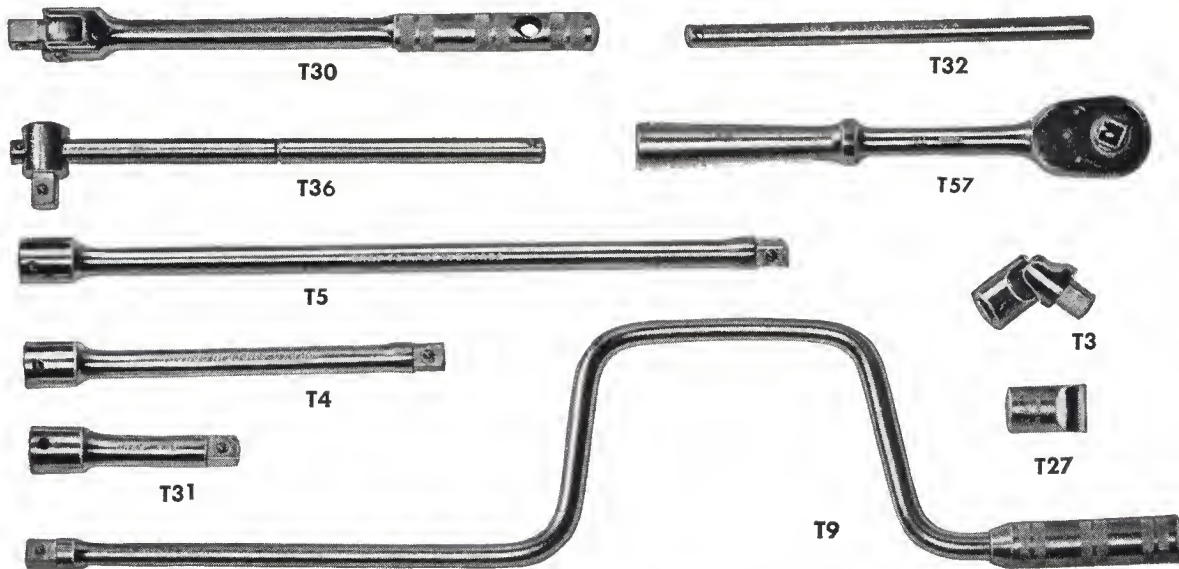
Included in this set are one each of the following:

No.	Description	No.	Description
V 6	3/16" S.H. Socket	Ignition Wrenches	
V 7	7/32" " "	E 14	13/64" & 15/64"
V 8	1/4" " "	E 16	15/64" & 13/64"
V 9	9/32" " "	E 18	7/32" & 1/4"
V 10	5/16" " "	E 20	1/4" & 7/32"
V 11	11/32" " "	E 22	9/32" & 5/16"
V 12	3/8" " "	E 24	5/16" & 9/32"
V 14	7/16" " "	E 26	11/32" & 3/8"
VS 8	1/4" D.Sq. " "	E 28	3/8" & 11/32"
VS 10	5/16" " "	E 30	7/16" & 1/2"
VS 12	3/8" " "	Ex. Small Box Wrenches	
V 17	Slide T Handle	E 40	3/16" & 13/64" S.H.
V 25	Rev. Ratchet 4 3/8"	E 42	7/32" & 15/64" S.H.
V 26	Flex Handle 5 3/4"	E 44	1/4" & 9/32" D.H.
V 27	Cross Bar 3 1/2"	E 46	5/16" & 11/32" D.H.
001	Ignition Screw Driver		
517	Ignition Plier		
K 52	Ignit. Feeler Gauge		



3/8" Drive Sockets and Attachments

The 3/8" Drive Sockets and Attachments have become a must for all good mechanics' tool kits. The chrome plated, thin wall, Chrome-Vanadium alloy steel sockets, extra slim handles and attachments, plus lock-on feature, are designed to allow the mechanic to get at the tightest spots on modern motors, aircraft and refrigeration units with ease.



Handles and Attachments

No.	Description	No.	Description	No.	Description
T 1	11 1/2" Extension	T 27	Drag Link Skt. .116" x 11/16" blade	T 57	7 1/2" Reversible Ratchet
T 3	Universal Joint	T 30	9 3/4" Flexible Handle	T 36	7 3/4" Slide T Handle
T 4	6" Extension	T 31	3" Extension	T 42	5 1/8" Screw Driver Type Handle
T 5	12" "	T 32	6" Cross Bar		
T 9	16 1/4" Speeder				

3/8" Square Drive Sockets

Open.	Single Hexagon	Open.	Double Hexagon	Open.	Double Square	Open.	Deep Single Hexagon	Open.	Deep Double Hexagon	Open.	Deep Double Square
1/4"	TH 8S	5/16"	T 10	1/4"	TS 8	3/8"	T 120	3/8"	LT 12	3/8"	LTS 12
5/16"	TH 10	3/8"	T 12	5/16"	TS 10	7/16"	T 140	7/16"	LT 14	1/2"	LTS 16
3/8"	TH 12	7/16"	T 14	3/8"	TS 12	1/2"	T 160	1/2"	LT 16	9/16"	LTS 18
7/16"	TH 14	1/2"	T 16	7/16"	TS 14	9/16"	T 180	9/16"	LT 18	5/8"	LTS 20
1/2"	TH 16	9/16"	T 18	1/2"	TS 16	5/8"	T 200	5/8"	LT 20		
9/16"	TH 18	1 1/2"	T 19	9/16"	TS 18	11/16"	T 220	11/16"	LT 22		
5/8"	TH 20	5/8"	T 20	5/8"	TS 20	3/4"	T 240	3/4"	LT 24		
11/16"	TH 22	11/16"	T 22			13/16"	T 260	13/16"	LT 26	Open	Single Square
3/4"	TH 24	3/4"	T 24			7/8"	T 280	7/8"	LT 28	9/32"	TS 9
		13/16"	T 26								
		7/8"	T 28								

Weatherhead Sockets

Designed for removing and replacing Weatherhead Fittings without damaging these soft metal parts.



No.	Fig. Size
HW 6	3/16"
HW 8	1/4"
HW 10	5/16"

Universal Joint Sockets Positive Positions

Opening	Double Hexagon	Single Hexagon
3/8"	TU 12	TU 120
7/16"	TU 14	TU 140
1/2"	TU 16	TU 160
9/16"	TU 18	TU 180
5/8"	TU 20	TU 200
11/16"	TU 22	
3/4"	TU 24	

Extra Deep Socket Sets



Set LT 9 DH contains nine extra deep Double Hexagon Sockets as listed in table above.

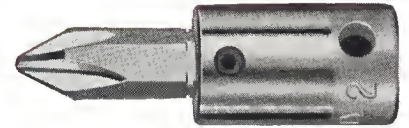
Set LT 9 SH contains one each of the nine Single Hexagon Extra Deep Sockets shown above.

3/8" Drive Special Tools

Wrenches for Phillips Head Screws — 3/8" Drive

These wrenches are provided for body work and door frames where it is necessary to exert considerable force to break loose or reset a Phillips fastener. Blades retained by means of hexagon set screw. Bits are replaceable.

No.	Phillips Point	Bit Length	Length Overall	Screw Sizes
TP 1	No. 1	1 1/4"	1 15/16"	No. 4 and Smaller
TP 2	No. 2	1 1/4"	1 15/16"	No. 5 to No. 9 inc.
TP 3	No. 3	1 1/4"	1 15/16"	No. 10 to No. 16 inc.
TP 4	No. 4	1 1/4"	1 15/16"	No. 18 and larger

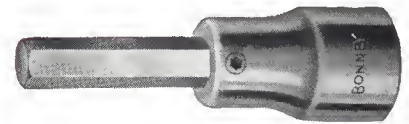


Wrenches for Phillips Head Screws
3/8" Drive

Wrenches for Socket Head Screws — 3/8" Drive

These wrenches are made for all the popular sizes of set screws and cap screws. They are strong, easy to use and the bits are replaceable.

No.	Across Flats	Bit Length	Length Overall	Screw Dia.					Pipe Plug
				Set	Socket Head Cap	Flat Head Cap	Shoul- der		
TW 4	1/8"	1 1/4"	2	1/4"	No. 8	No. 10	1/4"		
TW 5	5/32"	1 1/4"	2	5/16"	No. 10	1/4"	5/16"		
TW 6	3/16"	1 1/4"	2	3/8"	1/4"	5/16"	3/8"	1/8"	
TW 7	7/32"	1 1/4"	2	7/16"	5/16"	3/8"	7/16"		
TW 8	1/4"	1 1/4"	2	1/2"		7/16"	1/2"	1/4"	
TW 10	5/16"	1 1/4"	1 15/16"	5/8"	3/8" & 7/16"	1/2"	5/8"	3/8"	
TW 12	3/8"	1 1/4"	1 7/8"	3/4"	1/2"	5/8" & 3/4"	3/4"	1/2"	



Wrenches for Socket Head Screws
3/8" Drive

No. T 34 Screw Driver Socket

This handy attachment permits the use of a speeder or ratchet as a screw driver. The tool is 3 1/2" long with a 3/8" wide blade and a 3/64" thick tip.

● Not guaranteed.



No. T34
Screw Driver Socket



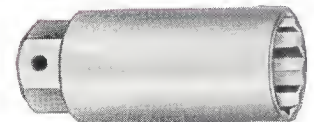
Adaptor

Adaptors

No.	Openings		
	Female		Male
4206	1/2" Sq.	&	3/8" Sq.
4215	3/8" Sq.	&	1/2" Sq.
4219	3/8" Sq.	&	9/32" Sq.

No. LT 26 R Double Hexagon Socket

This is a 3/8" drive, extra deep 13/16" double hexagon socket, specially designed for use on spark plugs. A neoprene ring is inserted for gripping the top of the spark plug. A 13/16" single hexagon is broached on the outside of the shoulder at the drive end.



LT 26 R

No. T 53 Square Drive Socket

3/8" Drive, Square Drive Socket to fit special screws in striker plates of late model Ford cars.



T 53

GRAY-BONNEY

3/8" Drive Socket Sets

SMALL SERIES

TG 30 Set

TG 30 Set

Contains 30 Pieces

Approximate Weight 7³/₄ lbs.



A thirty piece general purpose small series Socket Set. The content includes eight double hexagon regular sockets with openings from 3/8" to 3/4"; three Weatherhead Fitting Sockets, 3/16", 1/4", 5/16" openings; four Phillips Socket Wrenches with Bits Nos. 1 to 4; four D.H. Universal Joint Sockets, 1/16", 1/8", 9/16", 5/8"; and one each of the popular attachments, handles and Universal Joint. Supplied in strong Metal Box No. TG 20 B, 17" x 5" x 1".

The TG 30 includes one each of the following

Size	No.	Description	Size	No.	Description
3/8"	T 12	D.H. Socket	5/16"	HW 10	Wtherhd Sock.
7/16"	T 14	" "	1	TP 1	Phillips Socket
1/2"	T 16	" "	2	TP 2	" "
9/16"	T 18	" "	3	TP 3	" "
1 9/32"	T 19	" "	4	TP 4	" "
5/8"	T 20	" "	7/16"	TU 14	Univ. J. Socket
11/16"	T 22	" "	1/2"	TU 16	" "
3/4"	T 24	" "	9/16"	TU 18	" "
3/16"	HW 6	Wtherhd Sock.	5/8"	TU 20	" "
1/4"	HW 8	" "			

and the following attachments

No.	Description	No.	Description
T 3	Universal Joint	T 27	Drog Link Socket
T 31	3" Extension	T 30	9 ³ / ₄ " Flex. Handle
T 4	6" Extension	T 32	Cross Bor
T 5	11" Extension	T 57	7 ¹ / ₂ " Reversible Rotchet
T 9	16 ¹ / ₄ " Speeder	T 36	7 ³ / ₄ " Sliding Tee Handle
		T 42	5 ¹ / ₈ " Spin. Insul. Handle

TG 34 Set

Contains 34 Pieces — 1/4" to 7/8"

Approximate Weight 8 lbs.



TG 34 Set

Here is a set containing the complete line of standard double hexagon sockets from 1/4" to 7/8", also the complete line of deep double hexagon sockets from 3/8" to 7/8", along with three popular double square sockets and eleven attachments. All tools are made of selected chrome vanadium alloy steel, chrome plated and polished. Packed in an attractive metal case, No. 1303 B.

The TG 34 Set includes one each of the following

Size	No.	Description	Size	No.	Description
5/16"	T 10	D.H. Socket	3/8"	LT 12	Deep D.H. Socket
3/8"	T 12	" "	7/16"	LT 14	" " "
7/16"	T 14	" "	1/2"	LT 16	" " "
1/2"	T 16	" "	9/16"	LT 18	" " "
9/16"	T 18	" "	5/8"	LT 20	" " "
1 9/32"	T 19	" "	11/16"	LT 22	" " "
5/8"	T 20	" "	3/4"	LT 24	" " "
11/16"	T 22	" "	13/16"	LT 26	" " "
3/4"	T 24	" "	7/8"	LT 28	" " "
13/16"	T 26	" "	1/4"	TS 8	D.S. Socket
7/8"	T 28	" "	5/16"	TS 10	" "
			3/8"	TS 12	" "

and the following attachments

No.	Description	No.	Description
T 3	Universal Joint	T 34	Screw Driver Socket
T 31	3" Extension	T 30	9 ³ / ₄ " Flexible Handle
T 4	6" " "	T 32	Cross Bor
T 5	11" " "	T 57	7 ¹ / ₂ " Reversible Rotchet
T 9	16 ¹ / ₄ " Speeder	T 36	7 ³ / ₄ " Sliding T Handle
T 27	Drog Link Socket		



GRAY-BONNEY

3/8" Drive Socket Sets

SMALL SERIES

TG 12 Set

Contains 12 Pieces — 3/8" to 3/4"

Approximate Weight 2 lbs.

This inexpensive chrome plated set, packed in a neat metal box, is an ideal beginning towards a complete Chrome-Vanadium 3/8" drive socket set. True quality with a minimum investment. Supplied in metal case as illustrated. No. TG 12 B.

Contents of TG 12

Size	No.	Description	Size	No.	Description
3/8"	T 12	D.H. Socket	3/4"	T 24	D.H. Socket
7/16"	T 14	"	1/4"	TS 8	D.S. "
1/2"	T 16	"	5/16"	TS 10	"
9/16"	T 18	"	3/8"	TS 12	"
5/8"	T 20	"	9/16"	T 30	Flex. Hdle.
11/16"	T 22	"	6"	T 32	Cross Bar

TG 12 Set



TG 15 Set

Contains 15 Pieces — 5/16" to 3/4"

Approximate Weight 3 3/4 lbs.

This TG 15 Set includes the 8 most popular 3/8" drive Single Hexagon Sockets together with two extensions, Universal Joint, Reversible Ratchet, Sliding "T" Handle, Flexible Handle and Cross Bar. This selection is ideally suited to aviation and light automotive service work. Supplied in metal box. No. TG 12 B.

Contents include one each of the following

Size	No.	Description	Size	No.	Description
5/16"	TH 10	S.H. Socket	3"	T 31	Extension
3/8"	TH 12	"	6"	T 4	Extension
7/16"	TH 14	"	9 3/4"	T 30	Flex. Handle
1/2"	TH 16	"	6"	T 32	Cross Bar
9/16"	TH 18	"	7 1/2"	T 57	Rev. Ratchet
5/8"	TH 20	"	7 3/4"	T 36	Sl. "T" Handle
11/16"	TH 22	"		T 3	Univ. Joint
3/4"	TH 24	"			

TG 15 Set



TG 21 Set

Contains 21 Pieces — 1/4" to 3/4"

Approximate Weight 7 1/2 lbs.

This set contains the popular straight wall sockets with double hexagon openings. Designed especially for those who want quality with a minimum investment. Contains 21 pieces each selected for the large number of uses to which it may be put. All pieces are made of the finest Chrome-Vanadium alloy steel, chrome plated. Packed complete in attractively finished metal container measuring 17 1/4" x 5" x 1". No. TG 20 B.

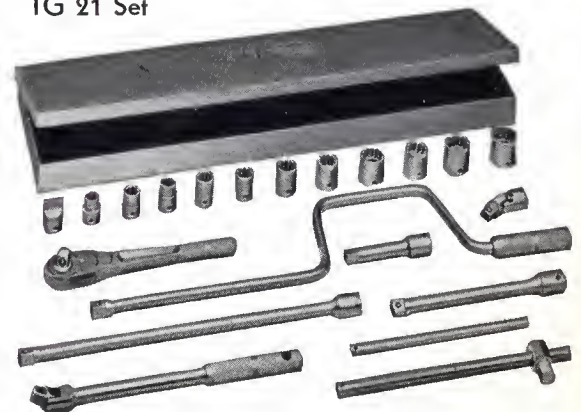
The TG 21 Set includes one each of the following

Size	No.	Description	Size	No.	Description
3/8"	T 12	D.H. Socket	11/16"	T 22	D.H. Socket
7/16"	T 14	"	3/4"	T 24	"
1/2"	T 16	"	1/4"	TS 8	D.S. "
9/16"	T 18	"	5/16"	TS 10	"
19/32"	T 19	"	3/8"	TS 12	"
5/8"	T 20	"			

and the following attachments

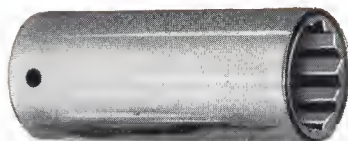
No.	Description	No.	Description
T 3	Universal Joint	T 27	Drag Link Socket
T 31	3" Extension	T 30	9 3/4" Flexible Handle
T 4	6" "	T 32	Cross Bar
T 5	11" "	T 57	Reversible Ratchet
T 9	16 1/4" Speeder	T 36	7 3/4" Sliding Tee Handle

TG 21 Set



You Can't Buy Better Tools

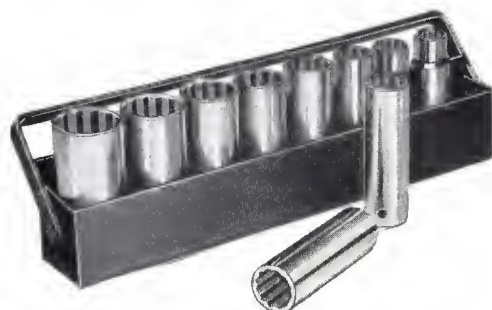
1/2" Square Drive Extra Deep Sockets



Extra Deep Double Hexagon Sockets



LD 5 Spark Plug Set



LD 10 Extra Deep Socket Set



5000 LR Ratchet Box Wrench Set

Extra Deep Double Hexagon Sockets

Extra deep sockets find many applications in automotive service work, but are especially suitable for removing and replacing spark plugs. Their overall length, $3\frac{1}{4}$ inches, and the exceptional depth of their openings, give them an advantage over ordinary sockets of similar type. They are made of the finest Chrome-Vanadium alloy steel, carefully heat treated, heavily chrome plated and polished to a high and permanent lustre.

Opening	Socket Number	Length
$\frac{1}{2}$ "	LD 16	$3\frac{1}{4}$ "
$\frac{9}{16}$ "	LD 18	$3\frac{1}{4}$ "
$\frac{5}{8}$ "	LD 20	$3\frac{1}{4}$ "
$\frac{11}{16}$ "	LD 22	$3\frac{1}{4}$ "
$\frac{3}{4}$ "	LD 24	$3\frac{1}{4}$ "
$\frac{13}{16}$ "	LD 26	$3\frac{1}{4}$ "
$\frac{7}{8}$ "	LD 28	$3\frac{1}{4}$ "
$1\frac{1}{16}$ "	LD 30	$3\frac{1}{4}$ "
1"	LD 32	$3\frac{1}{4}$ "
$1\frac{1}{16}$ "	LD 34	$3\frac{1}{4}$ "
$1\frac{1}{8}$ "	LD 36	$3\frac{1}{4}$ "

LD5 Spark Plug Set

This five piece extra deep Socket Set provides for removal and installation of spark plugs in most car, truck and other engines.

One each of the following sockets included:

LD 22 ($\frac{11}{16}$ ") LD 28 ($\frac{7}{8}$ ") LD 32 (1")
LD 26 ($\frac{13}{16}$ ") LD 30 ($1\frac{1}{16}$ ")

Supplied in metal box as illustrated.

LD 10 Extra Deep Socket Set

This deluxe set of ten extra deep double hexagon sockets is ideal equipment for all good mechanics. It provides the full size range needed to service all spark plugs and deep set nuts. Set includes one each (except LD 34) above listed Extra Deep Sockets. Supplied in a special steel tray as illustrated.

Ratchet Box Wrenches

A new series of light weight Ratcheting Box Wrenches with Chrome Plated Finish. A mechanic can loosen the nut and then fasten it off without using another wrench. Direction can be reversed by simply turning over the wrench.


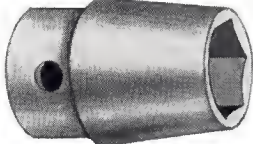
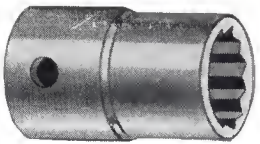
No.	Open	Description
5001	$\frac{1}{4}$ " x $\frac{5}{16}$ "	S.H. Length $4\frac{1}{4}$ "
5002	$\frac{3}{8}$ " x $\frac{7}{16}$ "	S.H. Length $5\frac{1}{2}$ "
5003	$\frac{1}{2}$ " x $\frac{9}{16}$ "	S.H. Length $6\frac{3}{4}$ "
5004	$\frac{5}{8}$ " x $1\frac{1}{16}$ "	D.H. Length 8"
5005	$\frac{3}{4}$ " x $\frac{7}{8}$ "	D.H. Length $9\frac{1}{4}$ "

5000 LR — Set of 5 of the above in handsome red plastic roll with transparent pockets.

1/2" Square Drive Standard Type Sockets

These Standard Series 1/2" Square Drive Sockets are thinner and tougher than ordinary sockets of the same design because each is individually hot broached from the finest Chrome-Vanadium alloy steel. This ensures accuracy and greater strength. Gray-Bonney sockets are correct in design and size, carefully heat treated for longer wear. They are equipped with the lock-on feature and each is highly polished and heavily chrome plated.

STANDARD TYPE SOCKETS

Dauble Square		Single Hexagan		Double Hexagon	
					
Opening	Number	Opening	Number	Opening	Number
3/8"	D 406 S	7/16"	407	3/8"	1406
7/16"	D 407 S	1/2"	408	7/16"	1407
1/2"	D 408 S			1/2"	1408
		9/16"	409	9/16"	1409
9/16"	D 409 S	5/8"	410	19/32"	1419
5/8"	D 410 S			5/8"	1410
11/16"	D 411 S	11/16"	411	21/32"	1421
3/4"	D 412 S	3/4"	412	11/16"	1411
7/8"	D 414 S	13/16"	413	3/4"	1412
1"	D 432 S	7/8"	414	25/32"	1425
		15/16"	415	13/16"	1413
				7/8"	1414
				15/16"	1415
				31/32"	1431
				1"	1432
				1 1/16"	1433
				1 1/8"	1434
				1 3/16"	1435
				1 1/4"	1436

DRAG LINK SOCKETS



Sacket Number	Width of Blade	Thickness of Blade	Application
404	4 7/64"	.109	Model A Ford and Houdaille shock absorbers Passenger Cars Trucks
405	1 5/16"	.150	
4002	1 3/16"	.150	

ADAPTORS



Na.	Openings	
	Female Sq.	Male Sq.
4206	1/2" Sq.	3/8" Sq.
4209	5/8" Sq.	1/2" Sq.
4215	3/8" Sq.	1/2" Sq.
4298	1/2" Sq.	3/4" Sq.
4299	3/4" Sq.	1/2" Sq.

FORD CONNECTING ROD SOCKET

No. 1421 — A 1/2" Square Drive Socket with 2 1/32" double hexagon opening, used when adjusting Ford Model A motor connecting rod bearing cap nuts.

No. SW 15 T Set



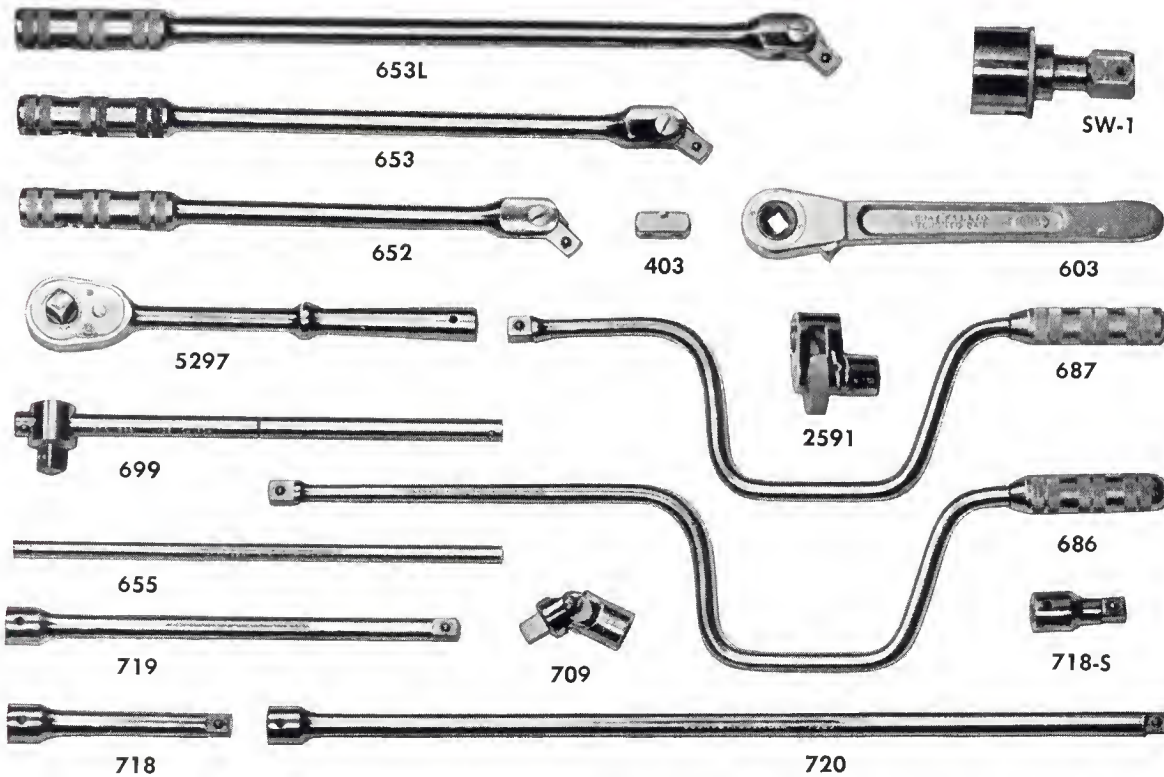
No. SW 15 T Set contains fifteen straight wallsockets: 7/16", 1/2", 9/16", 5/8", 21/32", 11/16", 3/4", 25/32", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", and 1 1/4".

GRAY-BONNEY

1/2" Drive Attachments

STANDARD SERIES

These Handles and Attachments are forged slimmer and lighter for your convenience, due to the use of the finest Chrome-Vanadium alloy steel, scientifically heat treated to assure maximum strength. These Gray-Bonney attachments are highly polished and heavily chrome plated.



HANDLES AND ATTACHMENTS

No.	Description	No.	Description	No.	Description
403	Cannectar for 603	709	Universal Joint	2591	Stud Remvr. (5/16" to 5/8")
603	Ratchet and Connector	718S	2" Farged Extension	SW-1	Super Stud Remover. Capa-
652	12" Flex. Handle	718	5" " "		city 1/4" thru 1/2". 1/2" Fe-
653	15" " "	719	10" " "		male Sq. Drive and exter-
653L	18" " "	720	20" " "		nal 1" Hex. Dr.
655	10 3/4" Crass Bar	5297	10" New Improved Reversible	SW-2	Super Stud Remover. Capa-
686	19" Speeder Rv. Grip		Ratchet (replacing 1497)		city 1 7/32" thru 3/4".
687	14 1/2" " "				External 1 1/4" Hex. Drive.
699	11" Slide T. Handle				

Castor-Camber Crowfoot Type 1/2" Square Drive Wrenches

These 1/2" square drive attachments fit between arms on either side of the adjusting nut, eliminating need for removal of arms in order to obtain clearance to adjust camber and castor.

No.	Opening	Application
1203	1 3/16"	Metear and Fard (also use 1205) Pontiac 1949-50 Monarch, Mercury, Meteor, Fard
1204	1 1/4"	
1205	1 5/16"	
1206	1 3/8"	
1207	1 7/16"	Chrysler Cars, 1941-49, except 7 pass. models Chrysler 7 pass., Saratoga and New Yorker
1209	1 1/2"	

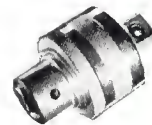


Castor adjustment is most satisfactorily handled on the following 1949 cars by using the thin single end wrench No. 1238

No.	Openings	Fits
1238	1 3/16"	Ford, Lincoln, Mercury



No. 697 1/2" Drive Ratchet Adaptor



697 Ratchet Adaptor. This adaptor converts any combination of handle extension and socket into a ratcheting tool. Convenient lever provides easy reverse action. Chrome plated and sealed to keep out dirt.

Mechanics Torque Wrench

SENSORY MODELS

Catalog Number	Capacity Inch Pounds	Drive Square Size (inches)
S 300-1	0 to 300	1/2
S 600-1	0 to 600	1/2
S 1200-1	0 to 1200	1/2
S 1800-1	0 to 1800	1/2
S 2400-1	0 to 2400	1/2 or 3/4
S 3600-1	0 to 3600	3/4
	Foot Pounds	
S 25	0 to 25	1/2
S 50	0 to 50	1/2
S 100	0 to 100	1/2
S 150	0 to 150	1/2
S 200	0 to 200	1/2 or 3/4
S 300	0 to 300	3/4

STANDARD MODELS

Catalog Number	Capacity Inch Pounds	Drive Square Size (inches)
F 300-1	0 to 300	1/2
F 600-1	0 to 600	1/2
F 1200-1	0 to 1200	1/2
F 1800-1	0 to 1800	1/2
F 2400-1	0 to 2400	1/2 or 3/4
F 3600-1	0 to 3600	3/4
	Foot Pounds	
F 25 TW	0 to 25	1/2
F 50	0 to 50	1/2
F 100	0 to 100	1/2
F 150	0 to 150	1/2
F 200	0 to 200	1/2 or 3/4
F 300	0 to 300	3/4

ROUND BEAM MODELS

Catalog Number	Capacity Inch Pounds	Drive Square Size (inches)
DR 100-1	0 to 100	3/8
DR 200-1	0 to 200	3/8
DR 300-1	0 to 300	3/8 or 1/2
R 600-1	0 to 600	3/8 or 1/2
R 1200-1	0 to 1200	1/2
R 1800-1	0 to 1800	1/2
R 2400-1	0 to 2400	1/2
	Foot Pounds	
DR 25	0 to 25	3/8 or 1/2
R 50	0 to 50	3/8 or 1/2
R 100	0 to 100	1/2
R 150	0 to 150	1/2
R 200	0 to 200	1/2



Sensory Models

All three models of Torque Wrenches are the same basic type, that is, the bending beam torque wrench, they do NOT have delicate mechanisms or frictional moving parts that can cause an inaccuracy in a Torque wrench.

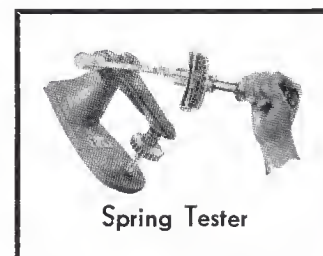


Standard Models



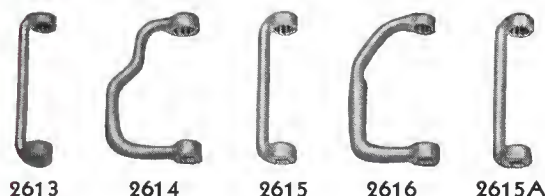
Round Beam Models

FX330P Extension doubles the torque capacity of the 3/4" drive torque wrenches (not illustrated).



Spring Tester

No. SPT



Handy Torque Wrench Attachments
for Cylinder Head Nuts

No.	Size	Length	Sweep	Fits
2613	3/4"	5 9/16"	1 1/16"	Buick 41-53, Straight eight Bock Bolts, oil 248, 270, 302 Series, also all Chevrolet Pass. and Trucks Head Bolts, except Center Bolts. All Chevrolet Pass. and Truck Center Bolts, except 50-51 and G.M. 1/2 to 7 ton, also 1946 and up Nash, Ambassador Series. All Pontiacs 1935-40, Buick "40" Series. Ford, Pontiac, Studebaker Late Models Pontiac and Oldsmobiles. All Ford Products. (not illustrated)
2614	3/4"	5 1/2"	3 1/16"	
2615	5/8"	5 9/16"	1 31/32"	
2615 A	1 1/16"	5 9/16"	1 1/16"	
2616	5/8"	5 11/16"	2 5/8"	
2617	1 1/16"	8 5/16"	3"	

The first 2 items on each of the first 4 groups will be supplied as specified. But on special orders can be supplied in 3/8" drive.

For Specialized Repairs



GRAY-BONNEY Master Set

MS 102 MB 82 Set

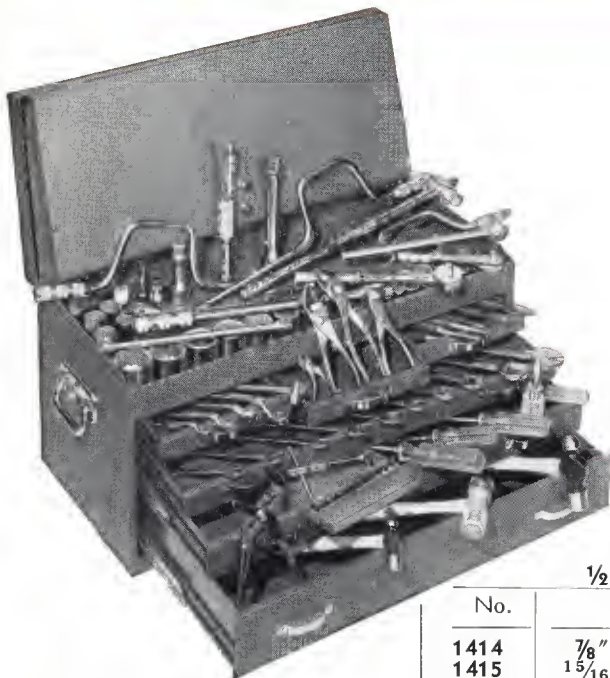
Contains 102 Pieces

Approx. Weight 112 lbs.

This Master Set MS 102 MB 82 contains the finest and most complete set of Gray-Bonney Tools ever assembled in one kit. 102 pieces — including one of almost every description to do practically any job encountered. Complete sets of sockets and attachments, box wrenches, open end wrenches, tappet wrenches, pliers, hammers, punches, chisels and screw drivers — all are included. The complete assortment is packed in a massive six-drawer metal chest finished in dark blue. It has strong carrying handles and is equipped with a barrel type lock with key. Chest measures 26 1/8" x 13 1/4" x 14 1/4".

NOTE — Tools contained in this set also available in set MS 102 20B. The SB, MB 82 and CC Cabinets illustrated on pages 21 and 23.

COMPLETE LIST OF CONTENTS LISTED BELOW



1/4" Sq. Dr. (Set VS 13)

No.	Description
V 6	3/16" S.H. Socket
V 7	7/32" " "
V 8	1/4" " "
V 9	9/32" " "
V 10	5/16" " "
V 11	11/32" " "
V 12	3/8" " "
V 14	7/16" " "
VS 8	1/4" Dbl. Sq. Socket
VS 10	5/16" " "
VS 12	3/8" " "
V 26	Flex. Handle 5 3/4" L.
V 27	Cross Bar 3 1/2" L.

3/8" Sq. Drive

T 12	3/8" D.H. Socket
T 14	7/16" " "
T 16	1/2" " "
T 18	9/16" " "
T 20	5/8" " "
T 22	11/16" " "
T 24	3/4" " "
T 31	Extension 3" L.
T 4	" 6" L.
T 5	" 11" L.
T 9	Speeder 16 1/4" L.
T 57	Rev. Ratchet 7 1/2" L.
T 36	Slide T Handle 7 3/4" L.

1/2" Sq. Drive

1407	7/16" D.H. Socket
1408	1/2" " "
1409	9/16" " "
1419	19/32" " "
1410	5/8" " "
1421	21/32" " "
1411	11/16" " "
1412	3/4" " "
1425	25/32" " "
1413	13/16" " "

1/2" Sq. Drive

No.	Description
1414	7/8" D.H. Socket
1415	15/16" " "
1431	31/32" " "
1432	1" " "
407	7/16" Single Hex.
408	1/2" " "
409	9/16" " "
410	5/8" " "
405	Dr. Link Skt. 15/16" bld.
LD 26	13/16" Extra Deep Socket
LD 28	7/8" " "
LD 30	15/16" " "
LD 32	1" " "
LD 36	1 1/8" " "
653	Flex. Handle 15" L.
655	Cross Bar 10 3/4" L.
686	Speeder 19" L.
687	" 14 1/2" L.
718 S	Extension 2" L.
718	" 5" L.
719	" 10" L.
709	Universal Joint
5297	Rev. Ratchet 10" L.

3/4" Sq. Drive

HD 34	1 1/16" D.H. Socket
HD 36	1 1/8" " "
HD 40	1 1/4" " "
HD 44	1 3/8" " "
HD 46	1 7/16" " "
HD 48	1 1/2" " "
HD 52	1 5/8" " "
86	Slide T Handle 17 1/2" L.
88 S	Extension 4" L.
88	" 8" L.

Open End Wrenches

E 1214	3/8" & 7/16"
E 1618	1/2" & 9/16"
E 1922	19/32" & 11/16"
E 2024	5/8" & 3/4"
E 2628	13/16" & 7/8"
E 3032	15/16" & 1"

Tappet Wrenches (2 ea.)

122	1/8" & 9/16" (2)
124	5/8" & 1 1/16" (2)

Box Wrenches

No.	Description
2384	3/8" & 7/16"
2386	1/2" & 9/16"
2387	9/16" & 5/8"
2388	5/8" & 3/4"

Chisels

C 2	Flat 1/2" x 5 1/2"
C 3	" 5/8" x 6"
C 4	" 3/4" x 6 1/2"

Punches

C 22	Salid 1/4" Pt. x 6" L.
C 28	Pin 1/8" Pt. x 5" L.
C 30	" 1/4" Pt. x 6 3/8" L.

Screw Drivers

04	4" Rd. Shank 7 3/4" L.
06	6" " 10 1/4" L.
08	8" " 12 3/4" L.
006	6" " Electricians
S 01	1 3/4" Adjusting

Pliers

B 17	Diagonal 6" L.
258	Water Pump 9 1/2" L.
B 26	Combination 7" L.
517	Ignition Type 4 1/4" L.
522	Battery Type 7 1/2" L.

Hammers

212 G	1 lb. Ball Pein
212 K	4 oz. Ball Pein
PH 15	1/2 lb. Soft Face

Container Options

See reference above. Suffix letters denote container selected.

I.E.

MS 102 MB 82 (Set in MB 82 Chest)

MS 102 MB 82 CC (Set in Chest with CC Roller Cabinet)



GRAY-BONNEY Master Sets

JMB 85 Set

This set contains all the most useful $\frac{3}{8}$ ", $\frac{1}{2}$ ", and $\frac{3}{4}$ " Square Drive Double Hexagon Sockets and Attachments; and a complete set No. 16 LR of Open End Ignition Wrenches; Open End Wrenches; and Long Double Offset Box Wrenches. The JMB 85 is packed in metal chest No. 21 B as illustrated, 21" x 8 $\frac{1}{2}$ " x 11 $\frac{1}{2}$ "

Weight approximate 75 lbs.

Complete List of Contents below.

$\frac{1}{4}$ " Sq. Drive (VS 13)

No.	Description	No.	Description
V 6	$\frac{3}{16}$ " S.H. Socket	V 14	$\frac{7}{16}$ " S.H. Socket
V 7	$\frac{7}{32}$ " " "	VS 8	$\frac{1}{4}$ " D. Sq. " "
V 8	$\frac{1}{4}$ " " " "	VS 10	$\frac{5}{16}$ " " " "
V 9	$\frac{9}{32}$ " " " "	VS 12	$\frac{3}{8}$ " " " "
V 10	$\frac{5}{16}$ " " " "	V 26	Flex. Hdle. 5 $\frac{3}{4}$ " L.
V 11	$\frac{11}{32}$ " " " "	V 27	Cross Bar 3 $\frac{1}{2}$ " L.
V 12	$\frac{3}{8}$ " " " "	B 21	Box

$\frac{3}{8}$ " Sq. Drive

No.	Description
T 10	$\frac{5}{16}$ " D.H. Socket
T 12	$\frac{3}{8}$ " " " "
T 14	$\frac{7}{16}$ " " " "
T 16	$\frac{1}{2}$ " " " "
T 18	$\frac{9}{16}$ " " " "
T 20	$\frac{5}{8}$ " " " "
T 22	$\frac{11}{16}$ " " " "
T 24	$\frac{3}{4}$ " " " "
T 4	Extension 6" L.
T 5	" 11" L.
T 30	Flex. Handle 9 $\frac{3}{4}$ " L.
T 32	Cross Bar 9 $\frac{3}{4}$ " L.
T 57	Rever. Ratchet 7 $\frac{1}{2}$ " L.
T 9	Speeder 16 $\frac{1}{4}$ " L.

$\frac{1}{2}$ " Sq. Drive

1406	$\frac{3}{8}$ " D.H. Socket
1407	$\frac{7}{16}$ " " " "
1408	$\frac{1}{2}$ " " " "
1409	$\frac{9}{16}$ " " " "
1410	$\frac{5}{8}$ " " " "
1411	$\frac{11}{16}$ " " " "
1412	$\frac{3}{4}$ " " " "
1425	$\frac{25}{32}$ " " " "
1413	$\frac{13}{16}$ " " " "
1414	$\frac{7}{8}$ " " " "
1415	$\frac{15}{16}$ " " " "
1431	$\frac{31}{32}$ " D.H. Socket
1432	1" " " "
LD 20	$\frac{5}{8}$ " D.H. Deep Sock.
LD 22	$\frac{11}{16}$ " " " "
LD 26	$\frac{13}{16}$ " " " "
LD 28	$\frac{7}{8}$ " " " "

$\frac{1}{2}$ " Sq. Drive

No.	Description
D 407 S	$\frac{7}{16}$ " D.S. Socket
D 408 S	$\frac{1}{2}$ " " " "
D 409 S	$\frac{9}{16}$ " " " "
405	Drog Link Socket
686	Speeder Rev. Grip 19" L.
718	Extension 5" L.
719	" 10" L.
699	Slide T Handle 11" L.
653	Flex. Handle 15" L.
5297	Rev. Rotchet 10" L.
709	Universal Joint

$\frac{3}{4}$ " Sq. Drive

HD 34	$\frac{1}{16}$ " D.H. Socket
HD 36	$\frac{11}{8}$ " " " "
HD 40	$\frac{11}{4}$ " " " "
HD 42	$\frac{15}{16}$ " " " "
HD 44	$\frac{13}{8}$ " " " "
HD 46	$\frac{17}{16}$ " " " "
HD 48	$\frac{11}{2}$ " " " "
86	Slide T Handle 17 $\frac{1}{2}$ " L.
88	Extension 8" L.

Ignition Wrench Set No. 16

No.	Description
E 14	$\frac{13}{64}$ " & $\frac{15}{64}$ " Len. 3"
E 16	$\frac{15}{64}$ " & $\frac{13}{64}$ " Len. 3"
E 18	$\frac{7}{32}$ " & $\frac{1}{4}$ " Len. 3"
E 20	$\frac{1}{4}$ " & $\frac{7}{32}$ " Len. 3"
E 22	$\frac{9}{32}$ " & $\frac{5}{16}$ " Len. 3 $\frac{1}{2}$ "
E 24	$\frac{5}{16}$ " & $\frac{9}{32}$ " Len. 3 $\frac{1}{2}$ "
E 26	$\frac{11}{32}$ " & $\frac{3}{8}$ " Len. 4"
E 28	$\frac{3}{8}$ " & $\frac{11}{32}$ " Len. 4"
E 30	$\frac{7}{16}$ " & $\frac{1}{2}$ " Len. 4 $\frac{1}{2}$ "

Open End Wrenches

E1214	$\frac{3}{8}$ " & $\frac{7}{16}$ "
E1618	$\frac{1}{2}$ " & $\frac{9}{16}$ "
E1922	$\frac{19}{32}$ " & $\frac{11}{16}$ "
E2024	$\frac{5}{8}$ " & $\frac{3}{4}$ "
E2628	$\frac{13}{16}$ " & $\frac{7}{8}$ "
E3032	$\frac{15}{16}$ " & 1"

Double Offset Box Wrenches

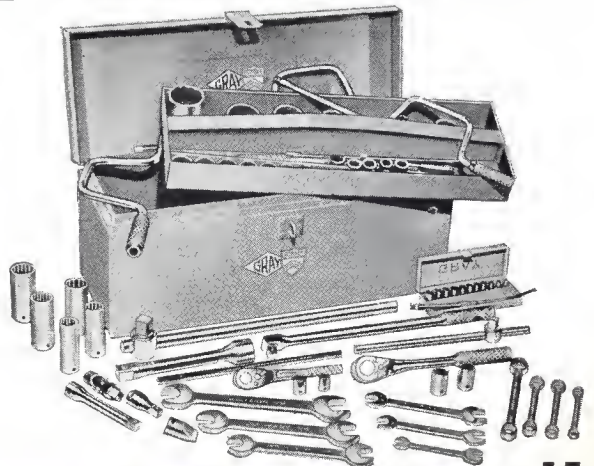
2804 L	$\frac{3}{8}$ " & $\frac{7}{16}$ " 8 $\frac{9}{16}$ " L.
2805 L	$\frac{1}{2}$ " & $\frac{9}{16}$ " 9" L.
2807 A	$\frac{5}{8}$ " & $\frac{11}{16}$ " 11" L.
2808	$\frac{3}{4}$ " & $\frac{7}{8}$ " 11 $\frac{1}{2}$ " L.
2809 B	$\frac{25}{32}$ " & $\frac{13}{16}$ " 12" L.
2810	$\frac{15}{16}$ " & 1" 13 $\frac{1}{2}$ " L.

MS 79-20B Combination Set

Contains 79 Pieces — $\frac{3}{16}$ " to 1 $\frac{5}{8}$ "
Approx. Weight 60 lbs.

Gray-Bonney MS 79-20B Set is ideal for the millwright or plant engineer who requires a general purpose wrench set. Tools supplied are identical with $\frac{1}{4}$ " Sq. Drive (Set VS 13); $\frac{3}{8}$ " Sq. Drive; $\frac{1}{2}$ " Sq. Drive; and $\frac{3}{4}$ " Sq. Drive sockets and attachments and the open end wrenches and box wrenches as supplied in set No. MS 102 illustrated on page 12. The tappet wrenches, chisels, punches, screwdrivers, pliers and hammers are not included. These chrome vanadium alloy steel tools supplied in a strong metal box with removable tray as illustrated. Size of box 21" long x 7 $\frac{1}{2}$ " high x 8 $\frac{1}{8}$ " wide. Box 20 B.

The Finest Name in Tools



GRAY-BONNEY Standard Series 1/2" Drive Sets

CS 48 Combination Set
Contains 48 Pieces — 3/8" to 1 5/8"
Approx. Weight 50 lbs.



This CS 48 Combination Set was created for the service man who does all types of general repairs on cars, trucks and tractors. It contains a good range of 3/4" square drive double hexagon sockets and attachments including a deluxe heavy duty reversible type ratchet in addition to entire content of SW 35 1/2" square drive socket set listed on page 15. This set is recommended to millwrights, construction and plant engineers. Supplied in strong metal box as illustrated No. 19B.

The CS 48 Set includes the following

Open	No.	Description	Open	No.	Description
3/8"	1406	D.H. Socket	1 5/16"	1415	D.H. Socket
7/16"	1407	" "	1 3/32"	1431	" "
1/2"	1408	" "	1"	1432	" "
9/16"	1409	" "	1 1/16"	1433	" "
1 1/32"	1419	" "	1 1/8"	1434	" "
5/8"	1410	" "	1 3/16"	1435	" "
2 1/32"	1421	" "	1 1/4"	1436	" "
1 1/16"	1411	" "	7/16"	407	S.H. Socket
3/4"	1412	" "	1/2"	408	" "
2 5/32"	1425	" "	9/16"	409	" "
1 3/16"	1413	" "	5/8"	410	" "
7/8"	1414	" "	1 1/16"	411	" "

3/4" Square Drive Sockets and Attachments

Open	No.	Description	Open	No.	Description
1"	HD 32	D.H. Socket	1 1/2"	HD 48	D.H. Socket
1 1/16"	HD 34	" "	1 5/8"	HD 52	" "
1 1/8"	HD 36	" "	86	17 1/2" S.T. Hdle.	
1 1/4"	HD 40	" "	88	8" Extension	
1 3/8"	HD 44	" "	87	15 1/2" Extension	
1 1/16"	HD 46	" "	4254-5	Rev. Ratchet	

1/2" Square Drive Attachments

No.	Description	No.	Description
405	Drag Link Socket	718	5" Extension
687	1 1/2" Speeder	719	10" Extension
686	19" " "	653	15" Flexible Handle
655	Cross Bar	699	11" Sl. "T" Handle
709	Universal Joint	5297	10" Rev. Ratchet
718S	2" Extension	2591	Stud Remover

SW 44 Apprentice Combination Set

Contains 44 Pieces — 3/8" to 1 1/4"

Approximate Weight 37 1/4 lbs.

Here is a set for the mechanic starting out, containing an assortment of 44 pieces including 1/2" square drive sockets, handles and attachments, pliers, screwdrivers and other miscellaneous tools for which the greatest everyday need will be found. It is inexpensive, yet every piece is of the highest quality. The contents were carefully selected to enable the handling of the greatest variety of repair jobs with the minimum number of tools. The large roomy box measures 21" x 7" x 7" and has ample room for the addition of more tools from time to time. It is equipped with a carrying handle. No. 19B.

The SW 44 Set includes one each of the following

No.	Description	No.	Description	Size	No.	Description	Size	No.	Description
003	3" Screwdriver	686	19" Speeder	3/8"	1406	D.H. Sack.	7/8"	1414	D.H. Sock.
04	4" " "	709	Universal Joint	7/16"	1407	" "	1 5/16"	1415	" "
08	8" " "	718	5" Extension	1/2"	1408	" "	1"	1432	" "
B 17	Diagonal Plier	719	10" " "	9/16"	1409	" "	1 1/16"	1433	" "
B 26	Combination Plier	5297	10" Deluxe Rev. Ratchet	1 1/32"	1419	" "	1 1/8"	1434	" "
C 3	Chisel Flat 5/8" Cut	3114	7/16" Tu-Type Wrench	5/8"	1410	" "	1 1/4"	1436	" "
C 5	Chisel " 7/8" " "	3116	1/2" " "	2 1/32"	1421	" "	1 3/16"	LD 26	Deep Sack.
C 23	Punch 1/8" Point	3118	9/16" " "	1 1/16"	1411	" "	7/8"	LD 28	" "
212 G	B. P. Hammer 1 lb.	3120	5/8" " "	3/4"	1412	" "	1 5/16"	LD 30	" "
522	Battery Plier	3122	1 1/16" " "	1 3/16"	1413	" "	1"	LD 32	" "
653	15" Flexible Handle	3124	3/4" " "						
655	Cross Bar	3128	7/8" " "						

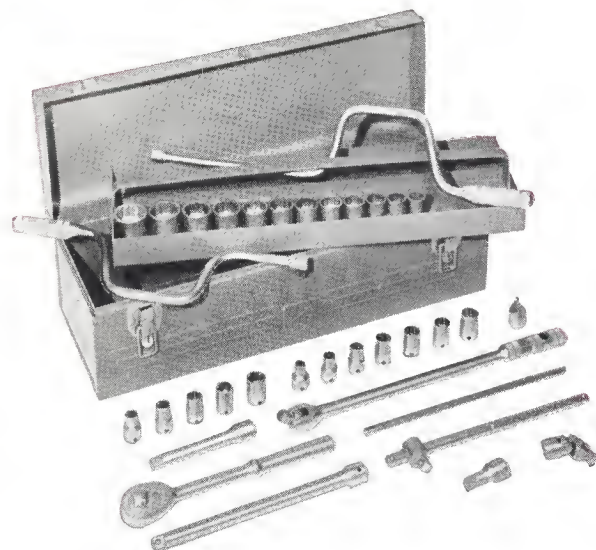
GRAY-BONNEY Standard Series 1/2" Drive Sets

This 35 piece socket set is an ideal selection for the mechanic that does general repair work. It is a tool kit any man will be glad to own. It includes all the popular regular design double hexagon and double square straight wall sockets, with a worth-while assortment of the popular attachments. All pieces are made of the finest Chrome-Vanadium alloy steel, heavily chrome plated and will retain their original finish indefinitely. The complete set is packed in a sturdy metal case with carrying handle and padlock hasp. Case measures 21" x 7" x 7" No. 19 B.

The SW 35 Set includes one each of the following

Size	No.	Description	Size	No.	Description
3/8"	1406	D.H. Sock.	3 1/32"	1431	D.H. Sock.
7/16"	1407	" "	1"	1432	" "
1/2"	1408	" "	1 1/16"	1433	" "
9/16"	1409	" "	1 1/8"	1434	" "
19/32"	1419	" "	1 3/16"	1435	" "
5/8"	1410	" "	1 1/4"	1436	" "
21/32"	1421	" "	7/16"	407	S.H. Sock.
11/16"	1411	" "	1/2"	408	" "
3/4"	1412	" "	9/16"	409	" "
25/32"	1425	" "	5/8"	410	" "
13/16"	1413	" "	11/16"	411	" "
7/8"	1414	" "	3/4"	412	" "
15/16"	1415	" "			

No.	Description	No.	Description
405	Drag Line Socket	718 S	2" Extension
686	19" Spdr.	718	5" Extension
687	14 1/2" Speeder	719	10" "
655	Cross Bar	653	15" Flex. Handle
709	Universal Joint	5297	10" Deluxe Ratchet



SW 35 Set

Contains 35 Pieces — 3/8" to 1 1/4"

Approx. Weight 31 lbs.

This SW 23 set has straight wall sockets with the popular double hexagon openings. It contains sockets in sizes that find the most general use plus an excellent assortment of handles and attachments. Each piece is made from Chrome-Vanadium alloy steel, scientifically heat treated and heavily chrome plated. The substantial metal box has a carrying handle and measures 20 1/4" x 6 1/2" x 1 11/16" No. 461 B.

Contents of SW 23

Size	No.	Sockets	Size	No.
3/8"	1406	one each	25/32"	1425
7/16"	1407	"	13/16"	1413
1/2"	1408	"	7/8"	1414
9/16"	1409	"	15/16"	1415
5/8"	1410	"	1"	1432
21/32"	1421	"	1 1/16"	1433
11/16"	1411	"	1 1/8"	1434
3/4"	1412	"	1 1/4"	1436

No.	Description	No.	Description
653	15" Flexible Handle	718	5" Extension
655	Cross Bar	719	10" Extension
686	19" Speeder	5297	10" Deluxe Reversible Ratchet
709	Universal Joint		



SW 23 Set

Contains 23 Pieces — 3/8" to 1 1/4"

Approx. Weight 15 3/4 lbs.



You Can't Buy Better Tools

Standard Series 1/2" Drive Sets

SW 20 Set

Contains 20 Pieces — 3/8" to 1"

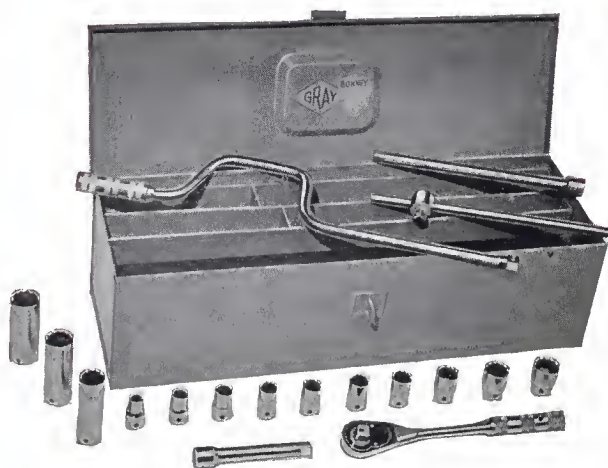
Approx. Weight 14 lbs.



SW 18 Set

Contains 18 Pieces — 7/16" to 7/8"

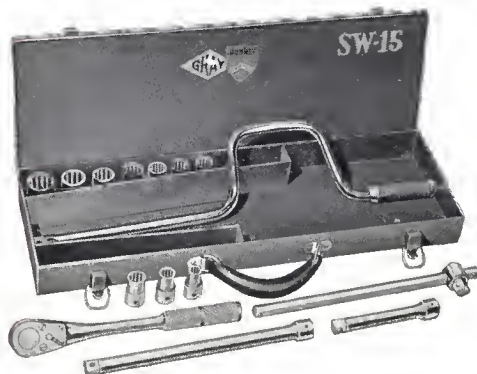
Approx. Weight 19 3/4 lbs.



SW 15 Set

Contains 15 Pieces — 3/8" to 7/8"

Approx. Weight 12 1/2 lbs.



This SW 20 set has thirteen straight wall double hexagon sockets and an assortment of the most desirable attachments. Packed in attractive metal case measuring 20 1/4" x 6 1/2" x 1 1/16". All pieces are of high quality Chrome-Vanadium alloy steel heavily chrome plated. It makes an ideal set for use either in the shop or on the job. Box No. 461B.

Contents of SW 20

Size	No.	Sockets	Size	No.
3/8"	1406	one each	3/4"	1412
7/16"	1407	"	13/16"	1413
1/2"	1408	"	25/32"	1425
9/16"	1409	"	7/8"	1414
5/8"	1410	"	15/16"	1415
21/32"	1421	"	1"	1432
11/16"	1411	"		

Plus one each of the following

No.	Description
653	15" Flexible Handle
655	Cross Bar
686	19" Speeder
709	Universal Joint
718	5" Extension
719	10" Extension
5297	10" Deluxe Reversible Ratchet

This SW 18 set has ten popular size regular straight wall sockets and three of the extra deep sockets, all with double hexagon openings. It also includes a high quality deluxe reversible ratchet and other attachments as listed below. These tools are supplied in a sturdy metal case large enough to accommodate additional tools. The case complete with handle and lock hasp measures 21" x 7" x 6" Box No. 19B.

The SW 18 Set includes one each of the following

Size	No.	Description	Size	No.	Description
7/16"	1407	D.H. Socket	3/4"	1412	D.H. Socket
1/2"	1408	"	13/16"	1413	"
9/16"	1409	"	7/8"	1414	"
19/32"	1419	"	15/16"	LD 26	Ex. Dp. Sock.
5/8"	1410	"	7/8"	LD 28	"
21/32"	1421	"	15/16"	LD 30	"
11/16"	1411	"			

Plus one each of the following

No.	Description	No.	Description
686	19" Speeder	718	5" Extension
699	11" Slide T Handle	719	10" "
5297	Deluxe Reversible Ratchet		

This SW 15 is an inexpensive set for the beginner or the man who wishes to do his own repairs. The set contains the same high quality straight wall sockets, handles and deluxe ratchet as the larger sets. It is packed in an attractive metal box which has ample room for additional tools. Box No. 461B.

The SW 15 Set includes one each of the following

Open.	No.	Description	Open.	No.	Description
3/8"	1406	D.H. Socket	21/32"	1421	D.H. Socket
7/16"	1407	"	11/16"	1411	"
1/2"	1408	"	3/4"	1412	"
9/16"	1409	"	13/16"	1413	"
5/8"	1410	"	7/8"	1414	"

Plus one each of the following Handles and attachments

No.	Description	No.	Description
686	19" Speeder	718	5" Extension
699	11" Slide T Handle	719	10" "
5297	Deluxe Reversible Ratchet		

GRAY-BONNEY 1/2" Drive Sets and Automatic Transmission Service Tools

The No. SW 11 Nut Spinner Set contains the 9 most popular Single Hexagon 1/2" Drive Straight Wall Sockets and a 15" Flex. Handle and Cross Bar. Ideal for the service-station or service-men doing light repairs. Box No. 1400B. Contents:—

No.	Open.	Description	No.	Open.	Description
407	7/16"	S.H. Socket	413	13/16"	S.H. Socket
408	1/2"	" "	414	7/8"	" "
409	9/16"	" "	415	15/16"	" "
410	5/8"	" "	653		15" Flex. Handle
411	11/16"	" "	655		Cross Bar
412	3/4"	" "			

This SW 14 Nut Spinner Set contains twelve thin straight wall sockets, and a 15" flexible handle and cross bar. It is an ideal set for the service station or service man doing light repairs. All pieces are made of the finest quality Chrome-Vanadium alloy steel and are finished in chromium.

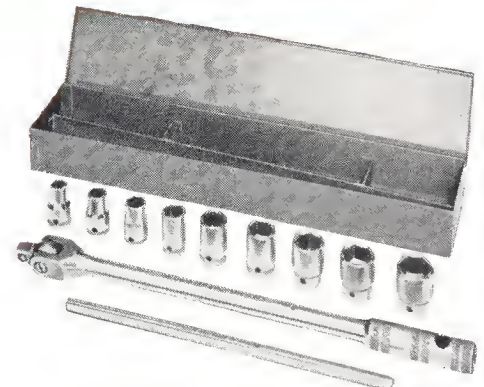
This set comes in a metal box. No. 1400B.

The following Sockets and Handles are included.

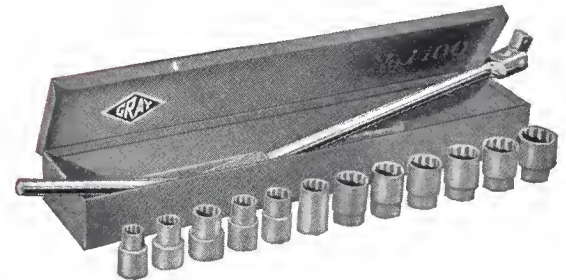
Open.	No.	Description	Open.	No.	Description
3/8"	1406	D.H. Socket	11/16"	1411	D.H. Socket
7/16"	1407	" "	3/4"	1412	" "
1/2"	1408	" "	13/16"	1413	" "
9/16"	1409	" "	7/8"	1414	" "
5/8"	1410	" "	15/16"	1415	" "
21/32"	1421	" "	1"	1432	" "

Plus No. 653 15" Flexible Handle and No. 655 Cross Bar.

SW 11 Set



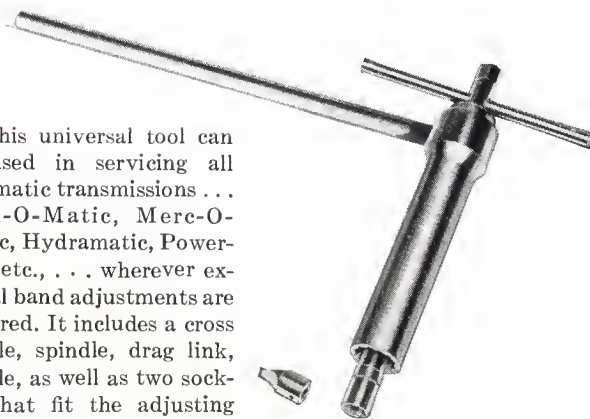
SW 14 Nut Spinner Set
Contains 14 Pieces — 3/8" to 1"
Approx. Weight 5 3/4 lbs.



Automatic Transmission Service Tools

Part No. 27010

This universal tool can be used in servicing all automatic transmissions... Ford-O-Matic, Merc-O-Matic, Hydramatic, Powerflite, etc.,... wherever external band adjustments are required. It includes a cross handle, spindle, drag link handle, as well as two sockets that fit the adjusting screw locknut and the adjusting screw. The spindle is designed for use with a torque wrench to tighten the bands to a given torque specification. This tool is precision built of high alloy steel and is chrome plated. Sold as a complete unit only.

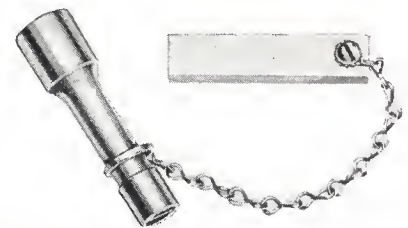


No. 27030

For adjusting the front band on a hydramatic transmission (internally).



Internal Band Adjusting Tools



No. 27020

The No. 27020 Front Band Adjusting Tool is designed for use on Ford-o-matic and Merc-o-matic.

No. 27040

The No. 27040 Rear Band Adjusting Gauge is designed for use on hydramatic transmissions (internally).



For Greater Efficiency

GRAY-BONNEY SW 60 Master 1/2" Drive Set

60 Pieces



This is a basic wrench set with any good mechanic, with this set you have every combination of handle and adaptors, extensions, and sockets in the 1/2" Drive Range.

The 21 B Tool Chest has a Hip Roof and two sliding drawers with a large tote tray.

Ask your local jobber salesman for prices.

1/2" Sq. Dr. Attachments

653 L	18" Flex. Handle
699	Slide T Handle 11"
686	19" Speeder Rev. Grip
5297	Ratchet Wrench 10"
709	Universal Joint
718 S	Extension Bar 2"
718	Extension Bar 5"
719	Extension Bar 10"
405	Drag Link Socket
SW 1	Super Stud Remover
720	Extension 20"
655	Cross Bar
4002	Truck Drag Link Socket

Double Hex Sockets

Opening	No.	Opening	No.	Opening	No.
3/8"	1406	21/32"	1421	15/16"	1415
7/16"	1407	11/16"	1411	1"	1432
1/2"	1408	3/4"	1412	1 1/16"	1433
9/16"	1409	25/32"	1425	1 1/8"	1434
19/32"	1419	13/16"	1413	1 3/16"	1435
5/8"	1410	7/8"	1414	1 1/4"	1436

Deep Double Hex Sockets

Opening	No.	Opening	No.	Opening	No.
1/2"	LD 16	3/4"	LD 24	1"	LD 32
9/16"	LD 18	1 3/16"	LD 26	1 1/16"	LD 34
5/8"	LD 20	7/8"	LD 28	1 1/8"	LD 36
1 1/16"	LD 22	1 5/16"	LD 30		

Double Square Sockets

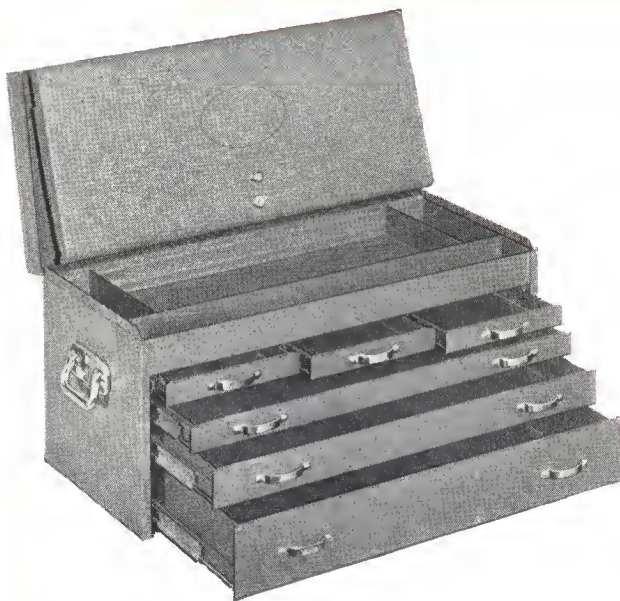
Opening	No.	Opening	No.	Opening	No.
3/8"	D 406 S	9/16"	D 409 S	3/4"	D 412 S
7/16"	D 407 S	5/8"	D 410 S	7/8"	D 414 S
1/2"	D 408 S	1 1/16"	D 411 S	1"	D 423 S

Single Hex Sockets

Opening	No.	Opening	No.	Opening	No.
7/16"	407	5/8"	410	1 3/16"	413
1/2"	408	1 1/16"	411	7/8"	414
9/16"	409	3/4"	412	1 5/16"	415

GRAY-BONNEY

Tool Chests and Roller Cabinet



No. MB 82 Master Chest

The MB 82 Master Chest is made of heavy gauge sheet metal with blue Hammertone enamel finish. The fold-over front which covers the drawers has a built-in lock with key.

Weight 62½ lbs.

Dimensions are as follows:

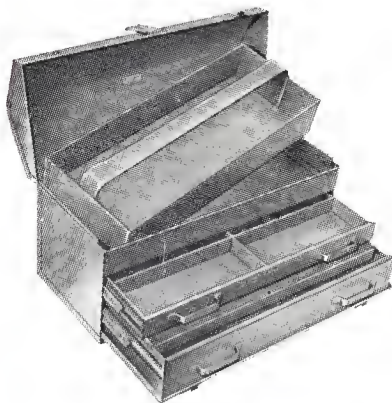
Width, 27"; depth, 13½"; height, 14⅜". Has six drawers with non-tilt extension slides.

	Width	Depth	Height
Top Row—3 small drawers	7"	11"	1"
2nd Row—full length drawer	23"	11"	1⅞"
3rd Row—full length drawer	23"	11"	1⅞"
4th Row—full length drawer	23"	11"	3¼"

Tote Tray 7⅝" x 18½" x 1½". Divided with two socket and one general tool compartments.

21 B

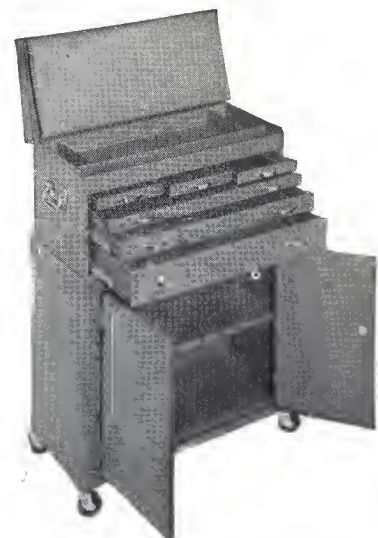
Heavy Duty Mechanic's Tool Box



The 21 B Mechanic's Box was designed by mechanics for mechanics. It has plenty of room for a full set of tools large and small. The tote tray and sliding drawers make every inch of space useable and easily accessible. It is made of heavy gauge, high quality steel and will give years and years of rugged service.

21" x 8½" x 11½" High—Weights 28 lbs.

Model MB 82 Chest Mounted on CC Roller Cabinet



Safeguards Tool Investment Rolls right up to the job

Reflects efficiency and promotes Customer Confidence

DIMENSIONS

CHEST ONLY—MB 82

Height 14⅜"; Depth 13½"; Width 27"

COMPLETE—MB 82 CC

Height 40¼"; Depth 13½"; Width 28"

WEIGHT—Roller Cabinet Complete (less tools and crate) 92 lbs.



You Can't Buy Better Tools

GRAY-BONNEY Tool Boxes

1303 B



A Heavy Duty Tool Box that is very popular with mechanics for medium sized tool sets and is ideal for service calls etc., as it has a large tote tray.

Made from heavy gauge steel with strong handle. Padlock hasp and finished in blue.

Size—19" x 8½" x 7".

No. XH 25 B



This box is designed to hold heavy duty sets of tools, with piano type hinge, carrying handles, padlock hasp and end catches. Ideal for industrial and construction use.

Size—30" x 8¼" x 5".

Weight 14½ lbs.

No. 4 B—A Small Handy Tool Box



This is a very popular small tool box for the mechanic and car owner, the small Cantilever Action Tray has three sections for small tools etc. Has a snap-lock which avoids spilling and accommodates padlock.

Size—14" x 6" x 5".

Packed 12 to carton.

5 B

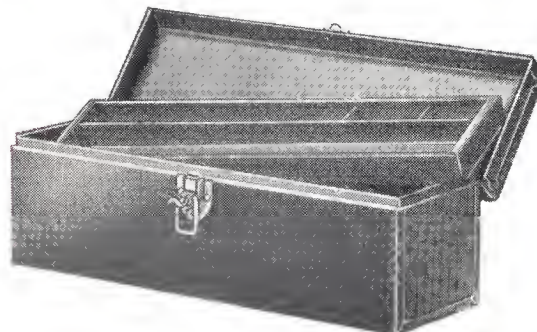


Here is a tool box of outstanding value and is very popular with mechanics. The Cantilever tray has five sections for small tools and parts, it fits into the lid so that every inch of space is useable.

Size—14" x 6" x 6½".

Packed 12 to carton.

6 B



An exceptional value in a large size low priced tool box. The lift out tray gives full access to the extra long and roomy interior. Sections are designed to hold both small parts and long tools. Small wonder it is such a popular box with mechanics and service men.

Packed 6 to carton.

GRAY-BONNEY Tool Boxes

19 B



Here is a really outstanding Heavy Duty Tool Box. It is made of heavy gauge, high quality steel and the joints are lapped and welded. The handle is leather reinforced with steel and the heavy draw pull catch accommodates a padlock for security. The tray is full length and lifts out for added convenience. The finish is a beautiful dark green baked krinkle enamel. Size 19" x 7" x 7". Weight 7 lbs.

20 B

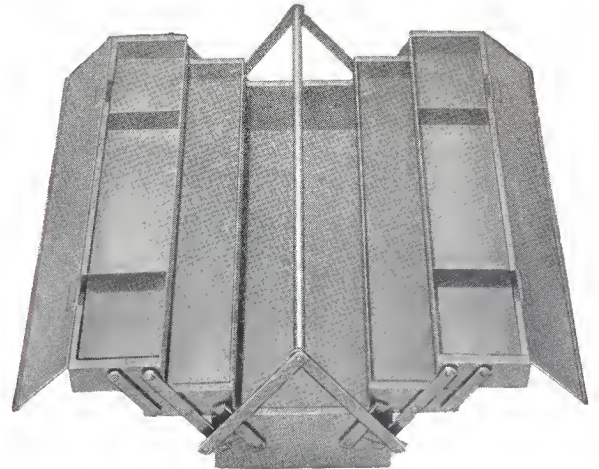


20B. This box represents exceptional value in a large Heavy Duty Tool Box. Every detail of the construction is designed for rugged durability. It is made of heavy gauge steel. The extra heavy draw pull catch accommodates a padlock and the reinforced leather handle makes it easy to carry heavy loads. The three compartment Tote Tray is a real convenience at no extra cost.

Size 20" x 8½" x 9½"—Weight 13 lbs.

Duplex Tool Boxes

The Gray-Bonney Duplex "all-steel" tool boxes have rugged construction and ample strength, yet by a slight pressure on the handle, the box opens and the tools are ready to lift out.



No. 100 Series

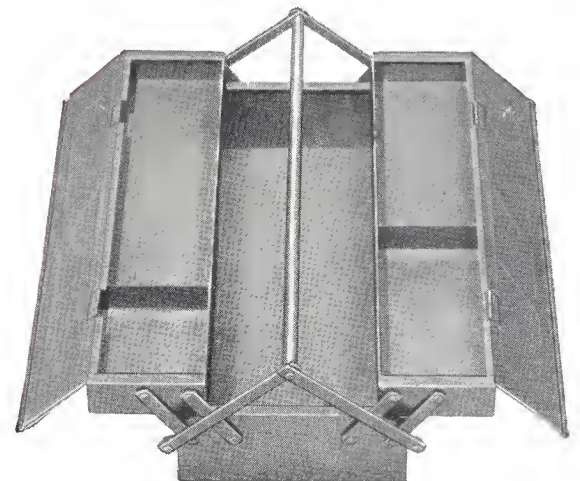
High quality boxes, having two trays on each side of handle. Three sizes available.

No. 114B—14" x 8" x 7¾"—Weight 9 lbs.

No. 119B—19" x 8" x 7¾"—Weight 17½ lbs.

No. 121B—21" x 8" x 7¾"—Weight 20 lbs.

Duplex Tool Boxes



No. 500 Series

Specially designed for the mechanic having a limited amount of tools to carry around.

No. 514B—14" x 8" x 6"—Weight 7 lbs.

No. 517B—17" x 8" x 7"—Weight 11 lbs.

No. 521B—21" x 8" x 6"—Weight 16 lbs.



For Greater Efficiency

GRAY-BONNEY

3/4" Square Drive **H. D. SERIES SOCKET HANDLES AND ATTACHMENTS**

(Chrome-Vanadium Alloy Steel)



4254



4255



2590



2590-1



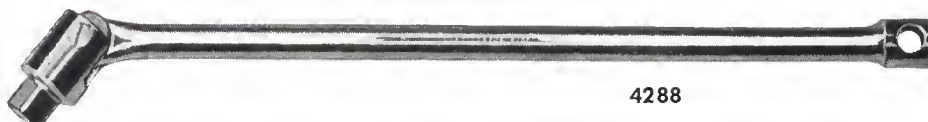
2590-2



86



88-S



4288



88



4289



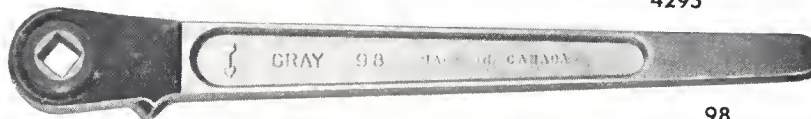
87



4295



89



98

No. Description

86 17 1/2" Slide T. Handle
 88 S 4" Forged Extension
 88 8" Forged Extension
 87 15 1/2" Forged Extension
 89 Rotchet Plug Connector
 98 19" Non-Reversible Rotchet
 2590 Stud Remover with Wedges
 (9/16" to 1")
 2590-1 Lt. Wedge for 2590

No.

Description

2590-2 Heavy Wedge for 2590
 4254 Rev. Rotchet Head Only
 4255 Rev. Rotchet Bar Only, 13/16" Dio. 20 1/2" Long
 4254-5 25" Long Rev. Rotchet Complete
 4288 22" Flexible Handle
 4289 Cross Bar
 4295 Universal Joint
 4405 Truck Drag Link Socket

3/4" Heavy Duty Sockets

"Double Hexagon"

Opening	Number	Description
7/8"	HD 28	D. H. Socket
15/16"	HD 30	"
31/32"	HD 31	"
1"	HD 32	"
1 1/16"	HD 34	"
1 1/8"	HD 36	"
1 3/16"	HD 38	"
1 1/4"	HD 40	"
1 5/16"	HD 42	"
1 3/8"	HD 44	"
1 7/16"	HD 46	"
1 1/2"	HD 48	"
1 9/16"	HD 50	"
1 5/8"	HD 52	"
1 11/16"	HD 54	"
1 3/4"	HD 56	"
1 13/16"	HD 58	"
1 7/8"	HD 60	"
2"	HD 64	"
2 1/16"	HD 66	"
2 1/8"	HD 68	"
2 3/16"	HD 70	"
2 1/4"	HD 72	"
2 3/8"	HD 76	"

"Double Square"

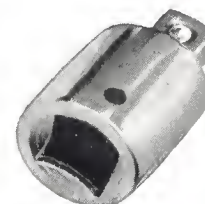
Opening	Number	Description
1"	S 4232	D. Sq. Socket
1 1/4"	S 4240	"

"Extra Deep Single Hexagon"

Opening	Number	Description
1"	LH 32	S.H. Deep Socket
1 1/16"	LH 34	"
1 1/8"	LH 36	"
1 1/4"	LH 40	"

All 3/4" drive sockets and attachments finished in long lasting lustrous chrome

ADAPTORS



No.	Openings	
	Female	Mole
4211	3/4" Sq. & 1" Sq.	
4213	1" Sq. & 3/4" Sq.	
4298	1 1/2" Sq. & 3/4" Sq.	
4299	3/4" Sq. & 1/2" Sq.	
No.	Openings	
	Mole	Mole
4202	1/2" Sq. & 3/4" Sq.	

GRAY-BONNEY

3/4" Square Drive Socket Sets HEAVY DUTY SERIES

This is an extremely fine heavy duty socket wrench set. It contains a complete range of the heavy duty Chrome-Vanadium alloy steel forged sockets with double hexagon openings in sizes from 7/8" to 2 3/16", a heavy duty reversible ratchet and the other heavy duty attachments as listed below. This is a deluxe set built for hard usage. All pieces are chrome plated and contained in a strong metal box No. 82 B. Set includes one each of:

Open.	No.	Description	Open.	No.	Description
7/8"	HD 28	H.D. Sock.	1 1/2"	HD 48	H.D. Sock.
15/16"	HD 30	" "	1 9/16"	HD 50	" "
1"	HD 32	" "	1 5/8"	HD 52	" "
1 1/16"	HD 34	" "	1 11/16"	HD 54	" "
1 1/8"	HD 36	" "	1 3/4"	HD 56	" "
1 3/16"	HD 38	" "	1 13/16"	HD 58	" "
1 1/4"	HD 40	" "	1 7/8"	HD 60	" "
1 5/16"	HD 42	" "	2"	HD 64	" "
1 3/8"	HD 44	" "	2 3/16"	HD 70	" "
1 1/16"	HD 46	" "			

plus the following attachments

No.	Description	No.	Description
86	17 1/2" Slide T Handle	88S	4" Extension
87	15 1/2" Extension	4254-5	25" Rev. Ratch. (2 pcs.)
88	8" "	4288	22" Flex. Handle

HD 25 Set

Contains 25 Pieces 7/8" to 2 3/16"
Approximate Weight 41 1/2 lbs



This heavy duty set contains a broad range of the heavy duty alloy steel sockets, including sizes from 7/8" to 2". It was designed to handle the heavy work on buses, trucks, tractors and all types of heavy industrial machinery. It is packed in a strong metal box No. 82 B containing one each of the following:

Open.	No.	Description	Open.	No.	Description
7/8"	HD 28	H.D. Sock.	1 3/8"	HD 44	H.D. Sock.
15/16"	HD 30	" "	1 7/16"	HD 46	" "
1"	HD 32	" "	1 1/2"	HD 48	" "
1 1/16"	HD 34	" "	1 5/8"	HD 52	" "
1 1/8"	HD 36	" "	1 3/4"	HD 56	" "
1 3/16"	HD 38	" "	1 13/16"	HD 58	" "
1 1/4"	HD 40	" "	1 7/8"	HD 60	" "
1 5/16"	HD 42	" "	2"	HD 64	" "

and following attachments:

No.	Description	No.	Description
86	17 1/2" Slide T Handle	87	15 1/2" Extension
88	8" Extension	4254-5	25" Rev. Ratchet
88 S	4" "		(2 pieces)

HD 21 Set

Contains 21 Pieces — 7/8" to 2"
Approximate Weight 33 1/2 lbs.



You Can't Buy Better Tools

GRAY-BONNEY

3/4" Square Drive Socket Sets HEAVY DUTY SERIES

HD 15 Set

Contains 15 Pieces — 7/8" to 1 3/4"

Approximate Weight — 24 1/2 lbs.



The HD 15 Set consists of fifteen well selected pieces chosen to provide a wide range in heavy duty types and sizes with a minimum investment. Supplied in strong metal box, No. 82 B.

Content includes

Open.	No.	Description	Open.	No.	Description
7/8"	HD 28	H.D. Sock.	1 3/8"	HD 44	D.H. Sock.
1"	HD 32	" "	1 7/16"	HD 46	" "
1 1/16"	HD 34	" "	1 1/2"	HD 48	" "
1 1/8"	HD 36	" "	1 5/8"	HD 52	" "
1 1/4"	HD 40	" "	1 3/4"	HD 56	" "

and following attachments

No.	Description	No.	Description
86	17 1/2" Slide T Handle	98	19" Ratchet
87	15 1/2" Extension	89	Ratchet Connector
88	8" Extension		

HD 13 Set

Contains 13 Pieces — 1" to 1 5/8"

Approximate Weight 23 3/4 lbs.

The HD 13 Set is the same as No. HD 11 with the addition of a No. 98 Ratchet and the No. 89 Connector. Supplied in metal box No. 82 B shown with HD 11 above.

HD 11 Set

Contains 11 Pieces — 1" to 1 5/8"

Approximate Weight 18 3/4 lbs.



This set is especially valuable for the user who requires heavy duty tools at a minimum investment. It can be built up into the big HD 21 set as the same box is used for both sets, No. 82 B. It contains one each of the following:

Open.	No.	Description	Open.	No.	Description
1"	HD 32	D.H. Socket	1 3/8"	HD 44	D.H. Socket
1 1/16"	HD 34	" "	1 7/16"	HD 46	" "
1 1/8"	HD 36	" "	1 1/2"	HD 48	" "
1 1/4"	HD 40	" "	1 5/8"	HD 52	" "

and following attachments

No.	Description	No.	Description
86	17 1/2" Slide T Handle	87	15 1/2" Extension
88	8" Extension		

1" Square Drive Sets and Sockets

EXTRA HEAVY DUTY SERIES

No. XH 25 Extra Heavy-Duty Socket Set

Contains 25 Pieces — 1 $\frac{7}{16}$ " to 3"

The Gray-Bonney No. XH25 Set contains an assortment of 17, 1" square drive double hexagon sockets, from 1 $\frac{7}{16}$ " to 3", and 8 attachments.

Designed for extra heavy work on buses, trucks, tractors, marine engines, heavy equipment and industrial machinery. Packed in a heavy metal box No. XH 25 B 30" x 8 $\frac{1}{4}$ " x 5", with piano type hinge, carrying handles, padlock hasp (and end catches), the set includes one each of the following:—

No.	Description	No.	Description
X 46	1 $\frac{7}{16}$ " D.H. Socket	X 84	2 $\frac{5}{8}$ " D.H. Socket
X 48	1 $\frac{1}{2}$ " " "	X 88	2 $\frac{3}{4}$ " " "
X 52	1 $\frac{5}{8}$ " " "	X 96	3" " "
X 54	1 $\frac{11}{16}$ " " "	X 8	8" Extension
X 58	1 $\frac{13}{16}$ " " "	X 9	17" " "
X 60	1 $\frac{7}{8}$ " " "	X 31	22" Sliding Bar
X 64	2" " "	X 32	Drive Head, Male
X 70	2 $\frac{3}{16}$ " " "	X 101	21" Reversible Ratchet
X 72	2 $\frac{1}{4}$ " " "	X 106	26" Flex Handle
X 74	2 $\frac{5}{16}$ " " "		male adaptor
X 76	2 $\frac{3}{8}$ " " "	4211	$\frac{3}{4}$ " square female
X 78	2 $\frac{7}{16}$ " " "		1" square
X 80	2 $\frac{1}{2}$ " " "	4213	1" square female $\frac{3}{4}$ "
X 82	2 $\frac{9}{16}$ " " "		square male adaptor



No. XH 16 Extra Heavy-Duty Socket Set

Contains 16 Pieces — 1 $\frac{7}{16}$ " to 2 $\frac{1}{2}$ "

The Gray-Bonney XH 16 Set Contains an assortment of eleven 1" square drive double hexagon sockets from 1 $\frac{7}{16}$ " to 2 $\frac{1}{2}$ " and five attachments.

Designed for extra heavy-duty work on buses, trucks, tractors, marine engines and equipment and industrial machinery.

Packed in a metal box 21" x 7" x 9", No. X 25 B with carrying handle, padlock hasp, and end catches, the set includes one each of the following:

No.	Description	No.	Description
X 46	1 $\frac{7}{16}$ " D. H. Socket	X 8	Extension, 8" long
X 48	1 $\frac{1}{2}$ " " "	X 9	" " 17" long
X 52	1 $\frac{5}{8}$ " " "	X 31	Sliding Bar, 22" long
X 54	1 $\frac{11}{16}$ " " "	X 32	Drive Head, Male
X 58	1 $\frac{13}{16}$ " " "	X 101	Reversible Ratchet
X 60	1 $\frac{7}{8}$ " " "		
X 64	2" " "	Note	No. X 106 Flex
X 70	2 $\frac{3}{16}$ " " "		Handle is not
X 72	2 $\frac{1}{4}$ " " "		included in Set.
X 76	2 $\frac{3}{8}$ " " "		
X 80	2 $\frac{1}{2}$ " " "		



Extra Heavy-Duty Double Hexagon Sockets—Chromium Plated

No.	Opening	No.	Opening	No.	Opening	No.	Opening	No.	Opening	No.	Opening
X 46	1 $\frac{7}{16}$ "	X 58	1 $\frac{13}{16}$ "	X 70	2 $\frac{3}{16}$ "	X 78	2 $\frac{7}{16}$ "	X 88	2 $\frac{3}{4}$ "	X 104	3 $\frac{1}{4}$ "
X 48	1 $\frac{1}{2}$ "	X 60	1 $\frac{7}{8}$ "	X 72	2 $\frac{1}{4}$ "	X 80	2 $\frac{1}{2}$ "	X 94	2 $\frac{15}{16}$ "	X 112	3 $\frac{1}{2}$ "
X 52	1 $\frac{5}{8}$ "	X 64	2"	X 74	2 $\frac{5}{16}$ "	X 82	2 $\frac{9}{16}$ "	X 96	3"		
X 54	1 $\frac{11}{16}$ "	X 68	2 $\frac{1}{8}$ "	X 76	2 $\frac{3}{8}$ "	X 84	2 $\frac{5}{8}$ "	X 100	3 $\frac{1}{8}$ "		

Extra Heavy-Duty Handles and Attachments

No.	Description	No.	Description
X 8	Extension, 8" long	X 32	Drive Head, Male
X 9	" " 17" long	X 33	" " Female
X 29	Square Bar Extension 8 $\frac{1}{2}$ " long	X 101	21" Rev. Ratchet
X 30	" " 17 $\frac{1}{2}$ " long	X 106	26" Flexible Handle
X 31	Sliding Bar, 22" long	4211	$\frac{3}{4}$ " Square Female, 1" Male Adaptor
		4213	1" Square " $\frac{3}{4}$ " " Adaptor



For Extra Heavy Repairs

GRAY-BONNEY

INDUSTRIAL SOCKETS

FOR IMPACT WRENCH APPLICATIONS

Gray-Bonney Chrome-Vanadium Industrial Power Sockets are made to "Stand the Gaff" under rugged service to which they will be subjected.

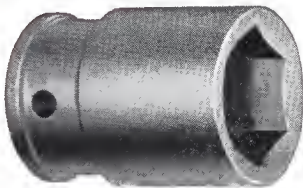
POWER SOCKETS—Single Hexagon, Regular Length

1/2" Square Drive Pattern — Ball Type Lock-on



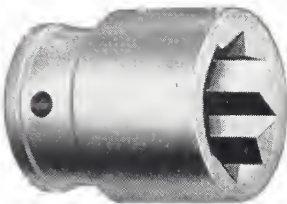
No.	Opening	Dr. End Dia.	Nose Dia.	Length	Type
2407	7/16"	7/8"	1 1/16"	1 1/2"	Ball Lock-on Type
2408	1/2"	1 5/16"	3/4"	1 1/2"	
2409	9/16"	1 5/16"	27/32"	1 1/2"	
2410	5/8"	1"	1 5/16"	1 1/2"	
2411	1 1/16"	1 1/16"	1"	1 1/2"	
2412	3/4"	1 3/16"	1 1/8"	1 1/2"	
2413	13/16"	1 1/4"	1 3/16"	1 1/2"	
2414	7/8"	1 5/16"	1 1/4"	1 1/2"	

1/2" Square Drive Pattern — Band and Pin Lock-on Type



No.	Opening	Dr. End Dia.	Nose Dia.	Length	Band and Pin Type
4-612	3/8"	1"	.625	1 1/2"	A
4-614	7/16"	1"	.707	1 1/2"	A
4-616	1/2"	1 1/16"	.789	1 1/2"	A
4-618	9/16"	1 1/16"	.871	1 1/2"	A
4-620	5/8"	1 1/8"	.953	1 1/2"	A
4-622	1 1/16"	1 1/8"	1.035	1 1/2"	A
4-624	3/4"	1 1/8"	1.125	1 1/2"	B
4-626	13/16"	1 1/8"	1.187	1 1/2"	B
4-628	7/8"	1 1/8"	1.312	1 1/2"	B
4-630	15/16"	1 5/16"	1.375	1 3/4"	B
4-632	1"	1 5/16"	1.437	1 3/4"	B

1/2" Sq. Dr. Double Square — Regular Length Band and Pin Lock-on



No.	Opening	Dr. End Dia.	Nose Dia.	Length	Band and Pin Type
4-812	3/8"	1"	.750	1 1/2"	A
4-814	7/16"	1"	.843	1 1/2"	A
4-816	1/2"	1 1/16"	.937	1 1/2"	A
4-818	9/16"	1 1/16"	1.031	1 1/2"	A
4-820	5/8"	1 1/8"	1.125	1 1/2"	B
4-822	1 1/16"	1 1/8"	1.250	1 1/2"	B
4-824	3/4"	1 5/16"	1.312	1 1/2"	B
4-826	13/16"	1 5/16"	1.437	1 1/2"	B
4-828	7/8"	1 5/16"	1.562	1 5/8"	B
4-830	15/16"	1 5/16"	1.625	1 3/4"	B
4-832	1"	1 5/16"	1.750	1 3/4"	B

3/4" Square Drive Pattern — Single Hex.

Band and Pin Lock-on Type

No.	Opening	Dr. End Dia.	Nose Dia.	Length	Band and Pin Type
6-624	3/4"	1 1/2"	1 1/4"	1 3/4"	A
6-626	13/16"	1 1/2"	1 3/8"	1 7/8"	A
6-628	7/8"	1 1/2"	1 1/2"	1 7/8"	A
6-630	15/16"	1 1/2"	1 9/16"	1 7/8"	B
6-632	1"	1 1/2"	1 5/8"	2"	B
6-634	1 1/16"	1 1/2"	1 11/16"	2"	B
6-636	1 1/8"	1 1/2"	1 3/4"	2 1/8"	B
6-640	1 1/4"	1 3/4"	2"	2 1/8"	B
6-642	1 5/16"	1 3/4"	2 1/16"	2 1/4"	B
6-646	1 7/16"	1 3/4"	2 1/4"	2 1/4"	B
6-648	1 1/2"	1 3/4"	2 5/16"	2 3/8"	B

Industrial Sockets

FOR IMPACT WRENCH APPLICATIONS

POWER SOCKETS

SINGLE HEXAGON — BOLT CLEARANCE LENGTH AND SQUARE TYPES

Made to fill the All Purpose Requirements of General Industrial Service where bolts may run longer than normal depth of the nut.

1/2" Sq. Dr. Single Hexagon — Bolt Clearance Length "Band and Pin Lock-on"



No.	Opening	Dr. End Dio.	Nose Dia.	Length	Band & Pin Type
14-612	3/8"	1"	.625	3 1/4"	A
14-614	7/16"	1"	.707	3 1/4"	A
14-616	1/2"	1 1/16"	.789	3 1/4"	A
14-618	9/16"	1 1/16"	.871	3 1/4"	A
14-620	5/8"	1 1/8"	.953	3 1/4"	A
14-622	1 1/16"	1 1/8"	1.035	3 1/4"	A
14-624	3/4"	1 1/8"	1.125	3 1/4"	B
14-626	13/16"	1 1/8"	1.187	3 1/4"	B
14-628	7/8"	1 1/8"	1.312	3 1/2"	B
14-630	15/16"	1 5/16"	1.375	3 1/2"	B
14-632	1"	1 5/16"	1.437	3 1/2"	B

3/4" Sq. Dr. Single Hexagon — Bolt Clearance Length — "Band and Pin Lock-on"

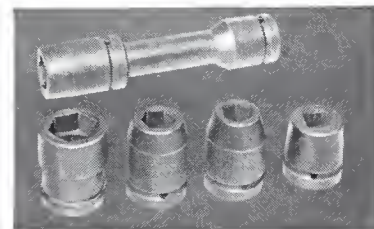
No.	Opening	Dr. End Dia.	Nose Dia.	Length	Band & Pin Type
16-624	3/4"	1 1/2"	1 1/4"	3 1/4"	A
16-626	13/16"	1 1/2"	1 3/8"	3 1/4"	A
16-628	7/8"	1 1/2"	1 1/2"	3 1/2"	A
16-630	15/16"	1 1/2"	1 9/16"	3 1/6"	B
16-632	1"	1 1/2"	1 5/8"	3 1/6"	B
16-634	1 1/16"	1 1/2"	1 11/16"	3 1/2"	B
16-636	1 1/8"	1 1/2"	1 3/4"	3 1/2"	B
16-640	1 1/4"	1 3/4"	2"	3 1/2"	B
16-642	1 5/16"	1 3/4"	2 1/16"	3 1/2"	B
16-646	1 7/16"	1 3/4"	2 1/4"	3 1/2"	B

3/4" Sq. Dr. Single Square — Regular Length — "Band and Pin Lock-on"

No.	Opening	Dr. End Dia.	Nose Dia.	Length	Band & Pin Type
6-426	13/16"	1 1/2"	1 5/8"	1 7/8"	B

1" Square Drive Extra Deep—Single Hex.

Power Sockets and Extension for use with the Ingersoll-Rand No. 34-U Electric Impacttool. These items are not guaranteed against wear and breakage. Warranty covers defects in workmanship and material only.



No.	Open.	Description	No.	Open.	Description
5430	1 5/16"	S.H. Socket	5426 S	1 3/16"	Single Square Socket
5434	1 1/16"	" "	5406		6" Extension
5440	1 1/4"	" "	5400-B		Locking Band
5448	1 1/2"	" "	5401-P		Locking Pin

GRAY-BONNEY
Industrial Attachments
AND SUPER H. D. BOX WRENCHES

POWER SQUARE ATTACHMENTS

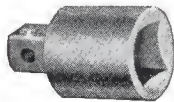
$\frac{3}{4}$ " Sq. Dr. Extension



$\frac{1}{2}$ " Sq. Dr. Extension

Na.	Length	Female Square	Male Square
6-107	7"	$\frac{3}{4}$ "	$\frac{3}{4}$ "
6-110	10"	$\frac{3}{4}$ "	$\frac{3}{4}$ "

Adapter — $\frac{5}{8}$ " Sq. Female, $\frac{1}{2}$ " Sq. Male



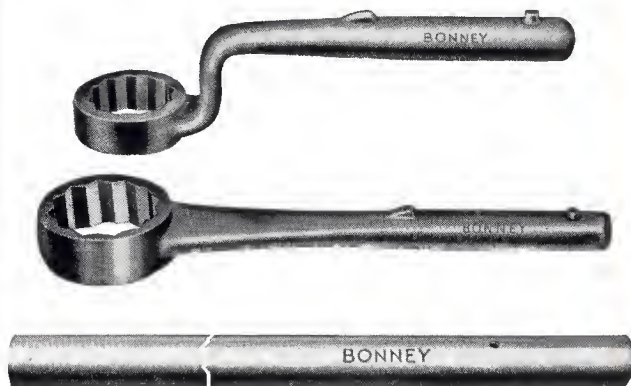
Na.	Length	Female Sq.	Male Sq.
4209	1 $\frac{3}{4}$ "	$\frac{5}{8}$ "	$\frac{1}{2}$ "

Striking Face Box Wrenches — Alloy Steel
 Drop-forged and heat-treated for hard service
 Double Hexagon Offset Head



Na.	Opening	Length	Head	
			Thickness	Outside Diameter
8807	1 $\frac{1}{16}$ "	10 $\frac{1}{2}$ "	$\frac{13}{16}$ "	1 $\frac{27}{32}$ "
8807 A	1 $\frac{1}{8}$ "	10 $\frac{1}{2}$ "	$\frac{13}{16}$ "	1 $\frac{27}{32}$ "
8808	1 $\frac{1}{4}$ "	11"	$\frac{7}{8}$ "	2 $\frac{3}{32}$ "
8808 A	1 $\frac{5}{16}$ "	11"	$\frac{7}{8}$ "	2 $\frac{3}{32}$ "
8809	1 $\frac{7}{16}$ "	11 $\frac{1}{2}$ "	1"	2 $\frac{3}{8}$ "
8809 A	1 $\frac{1}{2}$ "	11 $\frac{1}{2}$ "	1"	2 $\frac{3}{8}$ "
8810	1 $\frac{5}{8}$ "	12"	1 $\frac{1}{16}$ "	2 $\frac{5}{8}$ "
8810 A	1 $\frac{11}{16}$ "	12"	1 $\frac{1}{16}$ "	2 $\frac{5}{8}$ "
8811	1 $\frac{13}{16}$ "	12 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	2 $\frac{29}{32}$ "
8811 A	1 $\frac{7}{8}$ "	12 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	2 $\frac{29}{32}$ "
8812	2"	13"	1 $\frac{1}{4}$ "	3 $\frac{5}{32}$ "
8813	2 $\frac{3}{16}$ "	13 $\frac{1}{2}$ "	1 $\frac{3}{8}$ "	3 $\frac{15}{32}$ "
8813 A	2 $\frac{1}{4}$ "	13 $\frac{1}{2}$ "	1 $\frac{3}{8}$ "	3 $\frac{15}{32}$ "
8814	2 $\frac{3}{8}$ "	14"	1 $\frac{1}{2}$ "	3 $\frac{23}{32}$ "
8815	2 $\frac{9}{16}$ "	14 $\frac{1}{2}$ "	1 $\frac{5}{8}$ "	3 $\frac{29}{32}$ "
8815 A	2 $\frac{5}{8}$ "	14 $\frac{1}{2}$ "	1 $\frac{5}{8}$ "	3 $\frac{29}{32}$ "
8816	2 $\frac{3}{4}$ "	15"	1 $\frac{3}{4}$ "	4 $\frac{5}{32}$ "
8816 B	2 $\frac{15}{16}$ "	16"	1 $\frac{7}{8}$ "	4 $\frac{21}{32}$ "
8817 A	3"	16 $\frac{1}{2}$ "	2"	4 $\frac{15}{16}$ "
8817	3 $\frac{1}{8}$ "	16 $\frac{1}{2}$ "	2"	4 $\frac{15}{16}$ "

Heavy Duty Box Wrenches



These Heavy Duty Box Wrenches with double hexagon openings are designed for breaking loose or tightening large diameter nuts with a minimum of effort. They will be found especially useful for work on trucks, buses, tractors, steam shovels, industrial machinery, road machinery, etc.

Drop forged of chrome alloy steel, they are carefully heat treated to insure the ultimate strength of the steel, and are heavily plated. All have highly polished heads. A positive locking device holds the wrenches firmly in the interchangeable handle designed to give extra leverage for turning the "toughest" nut.

Straight Type Na.	Double Offset Na.	Opening	Head Thickness	Shank Dia.	Use Handle Na.
BS 34	BO 34	1 $\frac{1}{16}$ "	$\frac{11}{16}$ "	$\frac{7}{8}$ "	BH 28
BS 40	BO 40	1 $\frac{1}{4}$ "	$\frac{11}{16}$ "	$\frac{7}{8}$ "	BH 28
BS 44	BO 44	1 $\frac{3}{8}$ "	$\frac{11}{16}$ "	$\frac{7}{8}$ "	BH 28
BS 46	BO 46	1 $\frac{7}{16}$ "	$\frac{13}{16}$ "	$\frac{7}{8}$ "	BH 28
BS 48	BO 48	1 $\frac{1}{2}$ "	$\frac{13}{16}$ "	$\frac{7}{8}$ "	BH 28
BS 52	BO 52	1 $\frac{5}{8}$ "	1"	1"	BH 32
BS 54		1 $\frac{11}{16}$ "	1"	1"	BH 32
BS 58	BO 58	1 $\frac{13}{16}$ "	1 $\frac{1}{16}$ "	1"	BH 32
BS 60	BO 60	1 $\frac{7}{8}$ "	1 $\frac{1}{16}$ "	1"	BH 32
BS 64	BO 64	2"	1 $\frac{1}{8}$ "	1"	BH 32
BS 72	BO 72	2 $\frac{1}{4}$ "	1 $\frac{1}{4}$ "	1"	BH 32

Handle Na.	Length	Inside Diameter	Outside Diameter
BH 28	24"	$\frac{7}{8}$ "	1 $\frac{1}{8}$ "
BH 32	30"	1"	1 $\frac{1}{4}$ "



GRAY-BONNEY

Box Wrenches and Sets

Double Offset Box Wrenches

60° Angle

The long, smooth, round handles will give plenty of leverage to loosen the toughest nuts. These Chrome-Vanadium alloy steel wrenches have a deep offset to clear obstructions and give plenty of finger room.

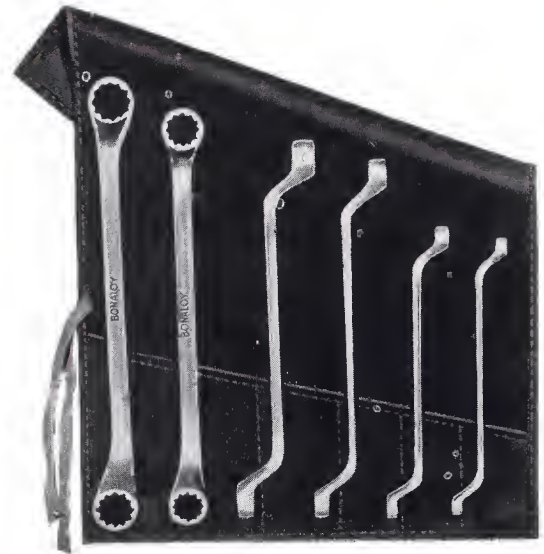
No.	Double Hexagon Openings	Length
2804 L	$\frac{3}{8}$ " & $\frac{7}{16}$ "	8 $\frac{1}{2}$ "
2804 C	$\frac{7}{16}$ " & $\frac{1}{2}$ "	8 $\frac{1}{2}$ "
2805 L	$\frac{1}{2}$ " & $\frac{9}{16}$ "	9"
2807 A	$\frac{5}{8}$ " & $\frac{11}{16}$ "	11"
2807 B	$\frac{19}{32}$ " & $\frac{11}{16}$ "	11"
2807	$\frac{5}{8}$ " & $\frac{3}{4}$ "	11"
2808	$\frac{3}{4}$ " & $\frac{7}{8}$ "	11 $\frac{1}{2}$ "
2808 B	$\frac{11}{16}$ " & $\frac{25}{32}$ "	11"
2809 B	$\frac{25}{32}$ " & $\frac{13}{16}$ "	12"
2809	$\frac{7}{8}$ " & $\frac{15}{16}$ "	12 $\frac{1}{2}$ "
2810	$\frac{15}{16}$ " & 1"	13 $\frac{1}{2}$ "

INDUSTRIAL SIZES

2811 E	$\frac{7}{8}$ " & 1 $\frac{1}{16}$ "	15"
2811 B	1 $\frac{5}{16}$ " & 1 $\frac{1}{16}$ "	15"
2811 A	1" & 1 $\frac{1}{16}$ "	15"
2811	1" & 1 $\frac{1}{8}$ "	15"
2812 D	1 $\frac{1}{16}$ " & 1 $\frac{1}{8}$ "	17"
2812 B	1 $\frac{1}{16}$ " & 1 $\frac{1}{4}$ "	17"
2812 C	1 $\frac{1}{8}$ " & 1 $\frac{1}{4}$ "	17"
2812	1 $\frac{1}{4}$ " & 1 $\frac{3}{8}$ "	18"
2812 A	1 $\frac{1}{4}$ " & 1 $\frac{7}{16}$ "	19 $\frac{5}{8}$ "
2812 E	1 $\frac{5}{16}$ " & 1 $\frac{1}{2}$ "	19 $\frac{5}{8}$ "
2813	1 $\frac{7}{16}$ " & 1 $\frac{5}{8}$ "	19 $\frac{5}{8}$ "
2813 A	1 $\frac{1}{2}$ " & 1 $\frac{11}{16}$ "	19 $\frac{5}{8}$ "
2815	1 $\frac{13}{16}$ " & 2"	24"
2815 B	1 $\frac{7}{8}$ " & 2"	24"

No. DO 6 Double Offset Set

$\frac{3}{8}$ " to 1"



This DO 6 Set includes six wrenches, Nos. 2804 L, 2805 L, 2807 A, 2808, 2809 B, 2810, providing openings from $\frac{3}{8}$ " to 1". Supplied in leatherette roll.

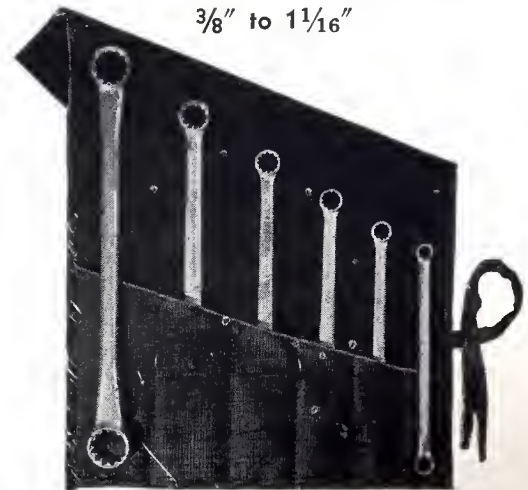
15 Deg. Angle Box Wrenches

Heads are at angles of from 10 degrees to 15 degrees, depending on the length of the wrench. All have double hexagon openings and are chrome-plated with polished heads. Chrome Vanadium Steel.

No.	Double Hexagon Openings	Length
2890	$\frac{3}{8}$ " & $\frac{7}{16}$ "	7 $\frac{5}{8}$ "
2891	$\frac{1}{2}$ " & $\frac{9}{16}$ "	8 $\frac{5}{8}$ "
2892	$\frac{5}{8}$ " & $\frac{11}{16}$ "	9 $\frac{5}{8}$ "
2892 A	$\frac{5}{8}$ " & $\frac{3}{4}$ "	9 $\frac{5}{8}$ "
2893 A	$\frac{3}{4}$ " & $\frac{25}{32}$ "	11"
2893	$\frac{3}{4}$ " & $\frac{13}{16}$ "	11"
2894 A	$\frac{13}{16}$ " & $\frac{7}{8}$ "	13 $\frac{1}{4}$ "
2894	$\frac{7}{8}$ " & $\frac{15}{16}$ "	13 $\frac{1}{4}$ "
2895 A	$\frac{15}{16}$ " & 1"	15 $\frac{1}{2}$ "
2895	1" & 1 $\frac{1}{16}$ "	15 $\frac{1}{2}$ "
2896	1 $\frac{1}{8}$ " & 1 $\frac{3}{8}$ "	17"
2897	1 $\frac{1}{4}$ " & 1 $\frac{7}{16}$ "	17"

No. 15 Box Wrench Set

$\frac{3}{8}$ " to 1 $\frac{1}{16}$ "



No. 15 Wrench Set contains six wrenches, Nos. 2890, 2891, 2892, 2894, 2895, with openings from $\frac{3}{8}$ " to 1 $\frac{1}{16}$ ". Supplied in leatherette roll.

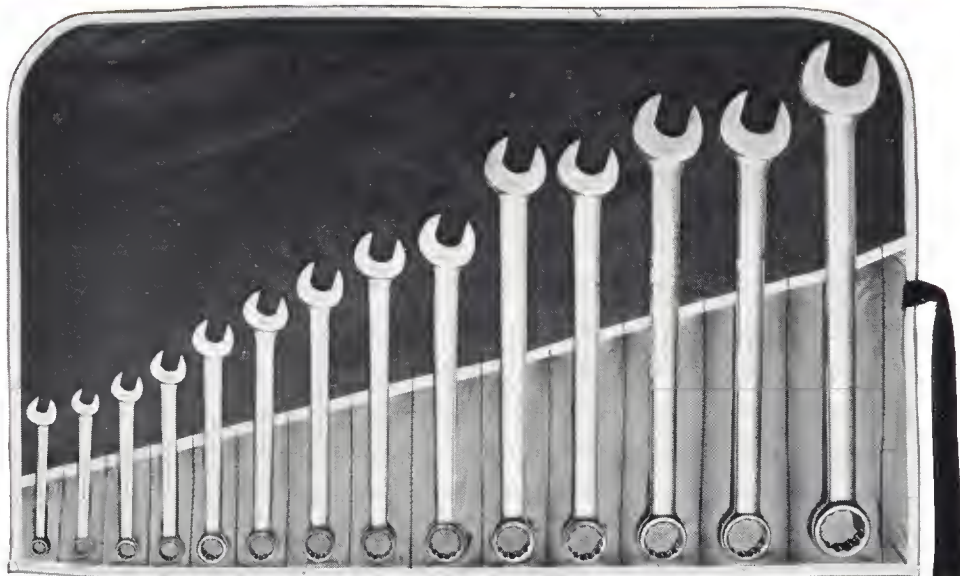


Sets Are Best

GRAY-BONNEY

Combination & Box Type Wrenches & Sets

TU 14 S Combination Box Type Wrenches and Sets



Gray-Bonney Combination Wrenches have two types of openings, both the same size—a box socket for loosening very tight nuts or pulling them tighter, and an open end for fast turning. The box socket end has a 15° angle for hand clearance. The 15° angle open end allows turning a nut with only a 30° handle movement. These wrenches are drop forged from chrome vanadium steel, and are completely polished to a mirror-like finish and chrome plated.

The above illustrated No. TU14S Set contains 14 wrenches from $\frac{3}{8}$ " to $1\frac{1}{4}$ ", excluding No. 3129, and is packed in an attractive blue and leatherette roll with transparent plastic pockets.

Combination Wrenches

No.	Openings	Length
1158	$\frac{1}{4}$ "	3"
1159	$\frac{5}{16}$ "	$3\frac{3}{4}$ "
3112	$\frac{3}{8}$ "	5"
3114	$\frac{7}{16}$ "	$5\frac{3}{8}$ "
3116	$\frac{1}{2}$ "	6"
3118	$\frac{9}{16}$ "	$6\frac{3}{4}$ "
3120	$\frac{5}{8}$ "	$7\frac{3}{4}$ "
3122	$1\frac{1}{16}$ "	$8\frac{5}{8}$ "
3124	$\frac{3}{4}$ "	$9\frac{1}{2}$ "
3126	$1\frac{3}{16}$ "	$10\frac{1}{2}$ "
3128	$\frac{7}{8}$ "	$10\frac{1}{2}$ "
3129	$2\frac{9}{32}$ "	$13\frac{1}{2}$ "
3130	$1\frac{5}{16}$ "	$13\frac{1}{2}$ "
3132	1"	$13\frac{1}{8}$ "
3134	$1\frac{1}{16}$ "	$14\frac{3}{4}$ "
3136	$1\frac{1}{8}$ "	$14\frac{3}{4}$ "
3140	$1\frac{1}{4}$ "	$16\frac{1}{4}$ "
3142	$1\frac{5}{16}$ "	$16\frac{1}{4}$ "
1176	$1\frac{7}{16}$ "	21"
1178	$1\frac{1}{2}$ "	21"
1180	$1\frac{5}{8}$ "	26"

Other Combination Wrench Sets

No. TU7—This set contains the following seven wrenches: 3114, 3116, 3118, 3120, 3122, 3124, 3128. It is supplied in a strong red leatherette roll with transparent plastic pockets.

No. TU9—Contains nine wrenches: 3112, 3114, 3116, 3118, 3120, 3122, 3124, 3128, 3132. Supplied in a strong red leatherette roll with transparent plastic pockets.

No. TU11—Contains the following eleven wrenches: 3112, 3114, 3116, 3118, 3120, 3122, 3124, 3126, 3128, 3130, 3132.

Short Type Box Wrenches



This series of 45° Offset Short Box Wrenches are of the finest quality, drop forged from Chrome-Vanadium alloy steel, and buffed to a high polish.

Single Hex.	Openings	Length
476	$\frac{3}{8}$ " x $\frac{7}{16}$ "	$4\frac{1}{2}$ "
477	$\frac{1}{2}$ " x $\frac{9}{16}$ "	$5\frac{1}{4}$ "
478	$\frac{5}{8}$ " x $1\frac{1}{16}$ "	6"
Set No. 470C — The three wrenches above, in clip.		
Double Hex.	Openings	Length
276	$\frac{3}{8}$ " x $\frac{7}{16}$ "	$4\frac{1}{2}$ "
277	$\frac{1}{2}$ " x $\frac{9}{16}$ "	$5\frac{1}{4}$ "
278	$\frac{5}{8}$ " x $1\frac{1}{16}$ "	6"
278A	$\frac{5}{8}$ " x $\frac{3}{4}$ "	$6\frac{1}{8}$ "
279	$\frac{3}{4}$ " x $1\frac{3}{16}$ "	$6\frac{1}{4}$ "

Set No. 270LR — Nos. 276, 277, 278, 279 in leatherette roll.

Set No. 273LR — Nos. 276, 277, 278A in leatherette roll.

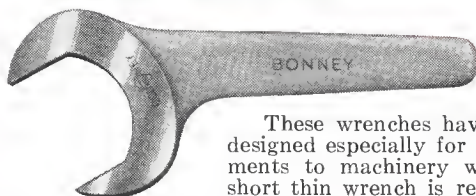
A Tool For Every Job



Tappet and Special Open End Wrenches

Single Head Wrenches

30° Opening — Short



These wrenches have been designed especially for adjustments to machinery where a short thin wrench is required.

Made of Bonaloy Steel. Chrome plated with polished heads.

Wrench No.	Openings Milled	Length	Thickness of Head
1224	3/4	6 1/4	1/4
1226	13/16	6 1/4	1/4
1228	7/8	6 1/4	1/4
1230	15/16	7	1/4
1232	1	7	1/4
1232 A	1 1/32	6 1/4	1/4
1234	1 1/16	7	1/4
1236	1 1/8	7	1/4
1236 S	1 5/16	7	1/4
1236 X	1 5/16	7	7/32
1238	1 3/16	7	1/4
1240	1 1/4	7	1/4
1241	1 9/32	7	1/4
1242	1 5/16	7 3/4	9/32
1244	1 3/8	7 3/4	9/32
1246	1 7/16	7 3/4	9/32
1248	1 1/2	7 3/4	9/32
1250	1 9/16	7 3/4	9/32
1252	1 5/8	7 3/4	9/32
1256	1 3/4	8 1/2	5/16
1258	1 13/16	8 1/2	5/16
1260	1 7/8	8 1/2	5/16
1262	1 15/16	8 1/2	5/16

Milled openings 2", 2-1/16", 2-1/8", 2 1/4", 2 3/8", 2 1/2", 2-9/16", available on special order basis.

Short Type 45° Ends



No.	Double Hexagon Openings	Length
2384	3/8" & 7/16"	5 1/8"
2386	1/2" & 9/16"	5 1/2"
2387	9/16" & 5/8"	5 3/4"
2388	5/8" & 3/4"	8 1/2"

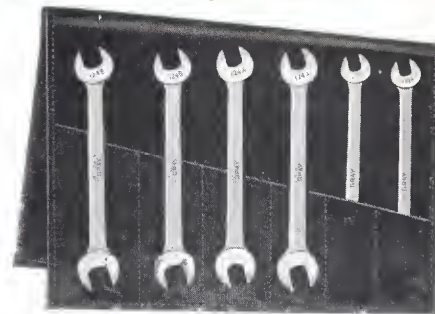


Long Type Box Wrenches

No.	Double Hexagon Openings	Length	No.	Double Hexagon Openings	Length
2316	1/2"	9"	2324	3/4"	11 1/2"
2318	9/16"	9 1/2"	2326	13/16"	12"
2320	5/8"	10"	2328	7/8"	12 3/4"
2322	11/16"	11"			

For Specialized Services

Standard Tappet Wrench Sets



No. 6 T Set consists of 6 Chrome-Vanadium Tappet Wrenches, 2 each Nos. 122 A, 124 A, and 124 B, covering openings 7/16" and 1/2", 9/16" and 5/8", 11/16" and 3/4". In leatherette roll as illustrated.

No. 4 T Set consists of 4 Wrenches, 2 each Nos. 122 and 124, covering sizes 1/2", 9/16", 5/8" and 11/16". In leatherette roll.

Standard Tappet Wrenches

No.	Size Openings	Length	Thickness Heads
122 A	7/16" & 1/2"	9 1/2"	5/32"
122 B	17/32" & 21/32"	9 1/2"	5/32"
122	1/2" & 9/16"	9 1/2"	5/32"
124 A	9/16" & 5/8"	9 1/2"	3/16"
124	5/8" & 11/16"	9 1/2"	3/16"
124 B	11/16" & 3/4"	9 1/2"	3/16"
426	3/4" & 7/8"	9 1/2"	7/32"
428	15/16" & 1"	9 1/2"	7/32"

Right Angle Wrenches



Openings in the most necessary sizes for wrenches of this type. Drop forged of alloy steel and chrome plated with polished heads. These right angle open end wrenches are ideal for working in close quarters.

No.	Openings	Length	Head Thickness
2723	3/8" & 7/16"	4 1/4"	7/32"
2725 B	1/2" & 9/16"	5 1/2"	15/64"
2729 RA	5/8" & 3/4"	7 1/2"	5/16"
2732 A	3/4" & 1"	9"	3/8"

No. 2509 Wrench



No.	Openings	Length
2509	9/16" 45° & 90°	6 3/8"

Electrical and Miniature Wrenches and Sets

No. 16 LR Ignition Wrench Set



No. 17 LR Ignition Wrench Set



No. N 20 R Zenel Miniature Wrench Set



No. N 80 R Extra Small Box Wrench Set



IGNITION WRENCHES

Gray-Bonney Electrical Wrenches have a different size opening in each end with head on one end at 15° angle and the other end at 60° angle. They are drop forged of Chrome Vanadium Steel with accurately milled openings, heat treated their entire length and fully chrome plated with polished heads.

They are exceptionally useful for making adjustments on accessories and electrical apparatus where parts are small and space in which to work is limited.

No.	Size Openings		Length	Thickness of Head
	15° End	60° End		
E 14	13/64"	15/64"	3"	7/64"
E 16	15/64"	13/64"	3"	7/64"
E 18	7/32"	1/4"	3"	7/64"
E 20	1/4"	7/32"	3"	7/64"
E 22	9/32"	5/16"	3 1/2"	1/8"
E 24	5/16"	9/32"	3 1/2"	1/8"
E 26	11/32"	3/8"	4"	9/64"
E 28	3/8"	11/32"	4"	9/64"
E 30	7/16"	1/2"	4 1/2"	5/32"

No. 16 LR Ignition Wrench Set

No. 16 set illustrated in left hand column supplied in leatherette roll, contains the nine wrenches listed in above table.

No. 17 LR Ignition Wrench Set

No. 17 set illustrated in left hand column supplied in leatherette roll, contains the No. 16 set above plus No. 17 Miniature Plier and the small 001 Screw Driver.

Zenel Miniature Wrenches

These Open End Miniature Wrenches are ideal for adjustments on generators, radios, distributors, air cleaners, electrical parts and work where parts are small and space in which to work is limited.

They are drop forged of Bonaloy Steel, given a careful heat treatment and heavily chrome plated with polished heads. A different size opening is milled in each end and heads are angled at 15° for efficiency. Handles are thin and concave to keep down weight.

No.	Size Openings	Length	Thickness of Head
H 10	3/16" & 7/32"	2 1/2"	7/64"
H 12	1/4" & 9/32"	3"	5/32"
H 14	5/16" & 11/32"	3 3/4"	3/16"
H 16	3/8" & 7/16"	4 1/8"	7/32"
H 18	13/32" & 15/32"	4 1/8"	7/32"

No. N 20 R set — 5 pieces — H 10, H 12, H 14, H 16, H 18, in leatherette roll as illustrated.

Extra Small Box Wrenches

Gray-Bonney Extra Small Box Wrenches are ideal for generator, carburetor, starter, electrical and ignition work where parts are small and space in which to work is limited. They are drop forged of alloy steel, heat treated and chrome plated with polished heads.

No.	Size Openings	Length
E 40	3/16" & 13/64" Hexagon	2 7/8"
E 42	7/32" & 15/64" Hexagon	3 1/8"
E 44	1/4" & 9/32" Double Hexagon	3 3/8"
E 46	5/16" & 11/32" Double Hexagon	3 3/4"

No. N 80 R set — 4 pieces — in leatherette roll as illustrated contains one each of the listed sizes.

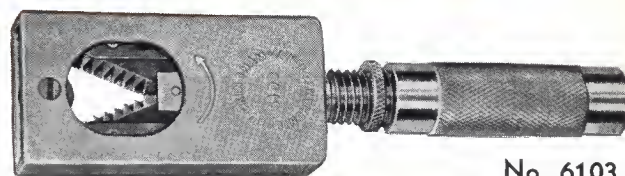
GRAY-BONNEY

Thread Restorers

Buckingham Thread Restorers fit any left or right-hand standard pipe or machine thread within limits specified (SAE or ASME). The number of threads per inch, right or left-handed, or types U.S.S., Standard, A.S.M.E., threads makes no difference.

To operate a Buckingham Thread Restorer, simply slip the tool over the thread fastener, tighten the jaws into the threads, then turn until the threader passes through the damaged portion and comes off end of fastener. It's not necessary to screw down tight — merely adjust the teeth until they are snug, then turn in proper direction, indicated by arrow. This prevents excessive wear and replacement of parts before they have served a normal life.

Buckingham's self-compensating Restorer Blades slide easily over keyways and milled flats on threaded parts. When used on studs or bolts with cotterpin holes, holes should be plugged with wood to avoid breaking teeth. Buckingham Thread Restorers are valuable tools for shops, garages, farmers, plumbers, construction outfits, maintenance men and mechanics.



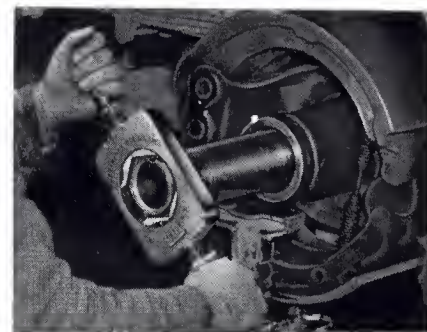
No. 6103



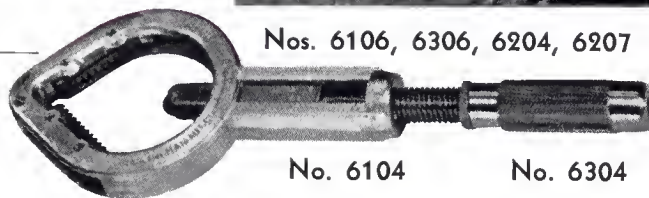
No. 6203

No.	Weight	Size		Swing	Working Distance from Shoulders
		Min.	Max.		
6103	1 lb.	1/4"	1"	7"	1/2"
6203	1 1/4 lb.	1/4"	1"	2 3/4"	1/2"
6104	2 1/2 lb.	1"	2 9/16"	10"	1/2"
6304	2 1/2 lb.	1"	2"	10"	5/16"
6106†	7 lb.	2"	4"	9"	5/16"
6204	3 1/4 lb.	1"	2 9/16"	4 5/8" - 5 3/8"	5/16"
6306	7 lb.	1"	3"	9"	5/16"
6207	8 1/4 lb.	4"	6"	8"	5/16"

† Two types of blades are available for No. 6106 only — one set for threads as coarse as 6 to the inch or coarser, and the other for all finer threads. Blades for fine threads are furnished unless otherwise specified. Blades are easily interchangeable.



Nos. 6106, 6306, 6204, 6207

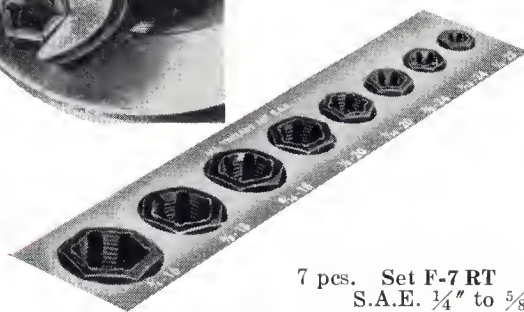


No. 6104

No. 6304



THREAD RESTORER SETS



7 pcs. Set F-7 RT
S.A.E. 1/4" to 5/8"

7 pcs. Set C-7 TR U.S.S. 1/4" to 5/8"

Furnished in Sets only, these Thread Restorers are fast cutting and do a quick job in restoring damaged threads. For use with standard design wrenches or sockets. Ideal for use in limited space. Will not harm good threads but designed to remove only the damaged portion.

For Greater Efficiency

INTERNAL AND EXTERNAL THREAD RESTORER



These file type Thread Restorers save time and trouble when you have to contend with damaged threads. A few strokes across battered threads produce a true new thread — nut will then go on easily. Add a pair to your service kit.

No. TR 1 — has 8 thread sizes — 11, 12, 13, 14, 16, 18, 20 and 24 threads to the inch.

No. TR 2 — has 8 thread sizes — 9, 10, 15, 16, 20, 26, 28 and 32 threads to the inch.

FOR EXTERNAL PIPE THREADS

No. 3-NU for 8 and 10 threads

No. 4-NU for 8 and 11 1/2 threads

No. 5-NU for 10 and 14 threads

(Used on pipe of any diameter)

FOR INTERNAL PIPE THREADS

No. 6-NU for 8 and 10 threads

No. 7-NU for 8 and 11 1/2 threads

No. 8-NU for 10 and 14 threads

(Work on all pipe and fittings 3/8" and larger)



GRAY-BONNEY

New Streamlined Wrenches

A New Design—Streamlined, Slim, Trim, Light in Weight and Well Balanced

Handles are rounded and smooth. Narrow heads, without sacrifice of strength, permit getting into tight places. Forged from Canadian made CHROME VANADIUM steel. Accurately machined, highly polished heads and finished in lustrous triple chrome plate.



Wrench No.	Openings	Length	Head Thickness
1019	$\frac{3}{16}$ & $\frac{1}{4}$	$2\frac{3}{4}$	$\frac{7}{64}$
E810	$\frac{1}{4}$ & $\frac{5}{16}$	3	$\frac{9}{64}$
E1012	$\frac{5}{16}$ & $\frac{3}{8}$	5	$\frac{7}{32}$
E1013	$\frac{5}{16}$ & $\frac{13}{32}$	5	$\frac{7}{32}$
E1014	$\frac{5}{16}$ & $\frac{7}{16}$	5	$\frac{7}{32}$
E1214	$\frac{3}{8}$ & $\frac{7}{16}$	5	$\frac{7}{32}$
E1216	$\frac{3}{8}$ & $\frac{1}{2}$	$6\frac{1}{4}$	$\frac{1}{4}$
E1319	$\frac{13}{32}$ & $\frac{15}{32}$	$6\frac{1}{4}$	$\frac{1}{4}$
E1416	$\frac{7}{16}$ & $\frac{1}{2}$	$6\frac{1}{4}$	$\frac{1}{4}$
E1418	$\frac{7}{16}$ & $\frac{9}{16}$	$6\frac{1}{4}$	$\frac{1}{4}$
E1618	$\frac{1}{2}$ & $\frac{9}{16}$	$6\frac{1}{4}$	$\frac{1}{4}$
E1619	$\frac{1}{2}$ & $\frac{15}{32}$	$6\frac{1}{4}$	$\frac{1}{4}$
E1620	$\frac{1}{2}$ & $\frac{5}{8}$	7	$\frac{9}{32}$
E1820	$\frac{9}{16}$ & $\frac{5}{8}$	7	$\frac{9}{32}$
E1822	$\frac{9}{16}$ & $\frac{11}{16}$	7	$\frac{9}{32}$
E1922	$\frac{19}{32}$ & $\frac{11}{16}$	7	$\frac{9}{32}$
E2022	$\frac{5}{8}$ & $\frac{11}{16}$	7	$\frac{9}{32}$
E2024	$\frac{5}{8}$ & $\frac{3}{4}$	$8\frac{1}{2}$	$\frac{5}{16}$
E2025	$\frac{5}{8}$ & $\frac{25}{32}$	$8\frac{1}{2}$	$\frac{5}{16}$
E2026	$\frac{5}{8}$ & $\frac{13}{16}$	$8\frac{1}{2}$	$\frac{5}{16}$
E2224	$\frac{11}{16}$ & $\frac{3}{4}$	$8\frac{1}{2}$	$\frac{5}{16}$
E2225	$\frac{11}{16}$ & $\frac{25}{32}$	$8\frac{1}{2}$	$\frac{5}{16}$
E2228	$\frac{11}{16}$ & $\frac{7}{8}$	$9\frac{3}{4}$	$\frac{11}{32}$
E2426	$\frac{3}{4}$ & $\frac{13}{16}$	$9\frac{3}{4}$	$\frac{11}{32}$
E2428	$\frac{3}{4}$ & $\frac{7}{8}$	$9\frac{3}{4}$	$\frac{11}{32}$
E2526	$\frac{25}{32}$ & $\frac{13}{16}$	$9\frac{3}{4}$	$\frac{11}{32}$
E2528	$\frac{25}{32}$ & $\frac{7}{8}$	$9\frac{3}{4}$	$\frac{11}{32}$
E2628	$\frac{13}{16}$ & $\frac{7}{8}$	$9\frac{3}{4}$	$\frac{11}{32}$
E2632	$\frac{13}{16}$ & 1	$11\frac{3}{8}$	$\frac{13}{32}$
E2830	$\frac{7}{8}$ & $\frac{15}{16}$	$11\frac{3}{8}$	$\frac{13}{32}$
E2832	$\frac{7}{8}$ & 1	$11\frac{3}{8}$	$\frac{13}{32}$
E2834	$\frac{7}{8}$ & $1\frac{1}{16}$	$11\frac{3}{8}$	$\frac{13}{32}$
E3032	$\frac{15}{16}$ & 1	$11\frac{3}{8}$	$\frac{13}{32}$
E3034	$\frac{15}{16}$ & $1\frac{1}{16}$	$11\frac{3}{8}$	$\frac{13}{32}$
E3134	$\frac{31}{32}$ & $1\frac{1}{16}$	$11\frac{3}{8}$	$\frac{13}{32}$
E3236	1 & $1\frac{1}{8}$	$11\frac{7}{8}$	$\frac{27}{64}$
E3436	$1\frac{1}{16}$ & $1\frac{1}{8}$	$11\frac{7}{8}$	$\frac{27}{64}$
E3240	1 & $1\frac{1}{4}$	$12\frac{1}{2}$	$\frac{29}{64}$
E3440	$1\frac{1}{16}$ & $1\frac{1}{4}$	$12\frac{1}{2}$	$\frac{29}{64}$
E3640	$1\frac{1}{8}$ & $1\frac{1}{4}$	$12\frac{1}{2}$	$\frac{29}{64}$
E3642	$1\frac{1}{8}$ & $1\frac{5}{16}$	$12\frac{1}{2}$	$\frac{29}{64}$
E3842	$\frac{13}{16}$ & $1\frac{5}{16}$	$12\frac{1}{2}$	$\frac{29}{64}$
E4042	$1\frac{1}{4}$ & $1\frac{5}{16}$	$14\frac{1}{2}$	$\frac{17}{32}$
E4044	$1\frac{1}{4}$ & $\frac{13}{8}$	$14\frac{1}{2}$	$\frac{17}{32}$
E4046	$1\frac{1}{4}$ & $1\frac{7}{16}$	$14\frac{1}{2}$	$\frac{17}{32}$
1738	$\frac{11}{8}$ & $1\frac{3}{8}$	14	$\frac{1}{2}$
1039B	$\frac{11}{4}$ & $1\frac{5}{16}$	14	$\frac{1}{2}$
1739	$1\frac{1}{4}$ & $\frac{13}{8}$	14	$\frac{1}{2}$
1739A	$1\frac{1}{4}$ & $1\frac{1}{2}$	14	$\frac{1}{2}$
1039C	$\frac{13}{8}$ & $1\frac{7}{16}$	14	$\frac{1}{2}$
1739B	$\frac{13}{8}$ & $1\frac{1}{2}$	14	$\frac{1}{2}$
1041	$1\frac{7}{16}$ & $1\frac{5}{8}$	$15\frac{1}{2}$	$\frac{9}{16}$
1041B	$1\frac{1}{2}$ & $1\frac{5}{8}$	$15\frac{1}{2}$	$\frac{9}{16}$



Streamlined

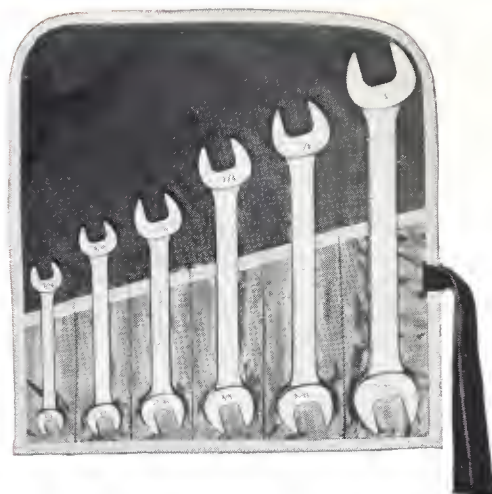
OPEN END WRENCH SETS

No. OE 6 LR Engineers' Wrench Set

No. OE 6 LR Engineers' Set contains twelve different openings in sizes from $\frac{3}{8}$ " to 1". Consists of one each of the following wrenches, supplied in leatherette roll.

No. OE 6 CB Same wrenches, supplied in cardboard box.

No.	Openings	No.	Openings
E 1214	$\frac{3}{8}$ & $\frac{7}{16}$	E 2024	$\frac{5}{8}$ & $\frac{3}{4}$
E 1618	$\frac{1}{2}$ & $\frac{9}{16}$	E 2628	$\frac{13}{16}$ & $\frac{7}{8}$
E 1922	$\frac{19}{32}$ & $\frac{11}{16}$	E 3032	$\frac{15}{16}$ & 1



No. OE 6 LR Engineers' Wrench Set

No. OE 8 LR Automotive Wrench Set

No. OE 8 LR Automotive Set contains sixteen different openings in sizes from $\frac{1}{4}$ " to $1\frac{1}{4}$ ". Consists of one each of the following wrenches, supplied in leatherette roll.

No. OE 8 CB Same wrenches, supplied in cardboard box.

No.	Openings	No.	Openings
E 810	$\frac{1}{4}$ & $\frac{5}{16}$	E 2024	$\frac{5}{8}$ & $\frac{3}{4}$
E 1214	$\frac{3}{8}$ & $\frac{7}{16}$	E 2628	$\frac{13}{16}$ & $\frac{7}{8}$
E 1618	$\frac{1}{2}$ & $\frac{9}{16}$	E 3032	$\frac{15}{16}$ & 1
E 1922	$\frac{19}{32}$ & $\frac{11}{16}$	E 3440	$1\frac{1}{16}$ & $1\frac{1}{4}$



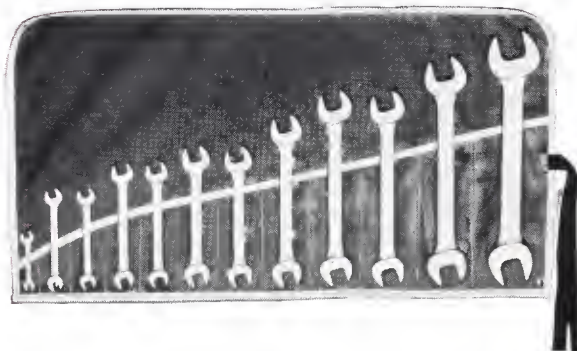
No. OE 8 LR Automotive Wrench Set

No. OE 12 LR Automotive Wrench Set

No. OE 12 LR Automotive Set contains fifteen different openings in sizes from $\frac{1}{4}$ " to $1\frac{1}{4}$ ". Consists of one each of the following wrenches, supplied in leatherette roll.

No. OE 12 CB Same wrenches, supplied in cardboard box.

No.	Openings	No.	Openings
E 810	$\frac{1}{4}$ & $\frac{5}{16}$	E 2022	$\frac{5}{8}$ & $1\frac{1}{16}$
E 1012	$\frac{5}{16}$ & $\frac{3}{8}$	E 2024	$\frac{5}{8}$ & $\frac{3}{4}$
E 1214	$\frac{3}{8}$ & $\frac{7}{16}$	E 2428	$\frac{3}{4}$ & $\frac{7}{8}$
E 1418	$\frac{7}{16}$ & $\frac{9}{16}$	E 2628	$\frac{13}{16}$ & $\frac{7}{8}$
E 1618	$\frac{1}{2}$ & $\frac{9}{16}$	E 3032	$\frac{15}{16}$ & 1
E 1820	$\frac{9}{16}$ & $\frac{5}{8}$	E 3440	$1\frac{1}{16}$ & $1\frac{1}{4}$



No. OE 12 LR Automotive Wrench Set

Adjustable, Starter and Manifold Wrenches

Dreadnaught Adjustable Wrenches



These Adjustable Wrenches are drop forged from special analysis tool steel. Fully tempered and heat treated, with polished heads and nickel plated.

No.	Size	Max. Opening	Std. Box Quantity	Weight Box of 6
DAW 6	6"	3/4"	6	2 1/2 lbs.
DAW 8	8"	1 5/16"	6	4 "
DAW 10	10"	1 7/8"	6	6 "
DAW 12	12"	1 5/8"	6	11 "

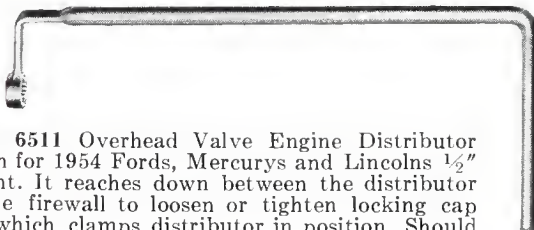
Gray-Bonney Alloy Adjustable Wrenches



The Gray-Bonney lightweight Adjustable Wrench is forged from Chrome-Vanadium alloy steel. It is thinner and lighter, yet much stronger than the standard pattern.

No.	Size	Max. Opening	No.	Size	Max. Opening
BW 4	4"	1/2"	BW 12	12"	1 5/16"
BW 6	6"	3/4"	AC 115	15"	1 11/16"
BW 8	8"	1 5/16"	AC 118	18"	2 1/16"
BW 10	10"	1 1/8"	AC 124	24"	2 7/16"

No. 6511 Overhead Valve Engine Distributor Wrench



No. 6511 Overhead Valve Engine Distributor Wrench for 1954 Fords, Mercurys and Lincolns 1/2" 12 point. It reaches down between the distributor and the firewall to loosen or tighten locking cap screw which clamps distributor in position. Should be used to time these engines.

NEW DISTRIBUTOR WRENCHES

For Late Model Cars

In servicing the popular 1956 cars you'll find the wrenches below are properly designed to reach those "hard-to-get-at" distributor adjusting nuts.

No. 6508 — 9/16" Opening

This distributor wrench has the proper bends and is offset to quickly service the 1956 Chevrolet, Pontiac, Oldsmobile and Buick.

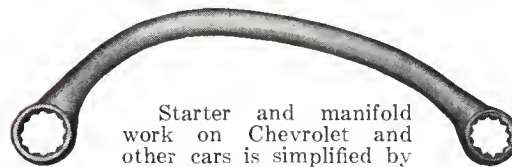
No. 6509 — 1/2" Opening

It's easy to reach the distributor adjusting nut on the 1956 Mercury, Cadillac, Dodge, Chrysler, Lincoln, Plymouth, Desoto and Packard with this wrench.

No. 6510 — 1/2" Opening

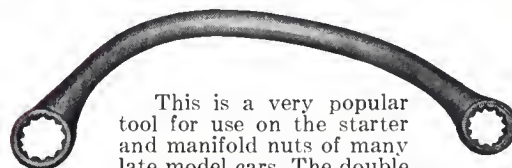
This wrench is designed with the proper bend to service the 1956 Ford.

No. 2319 Starter and Manifold Wrench



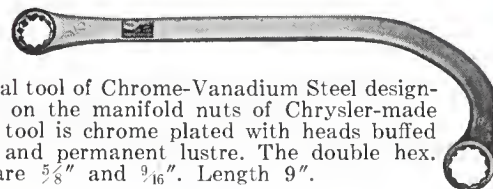
Starter and manifold work on Chevrolet and other cars is simplified by this wrench. The double Hex. openings are 9/16" and 5/8". Length 7 3/4".

No. 2884 Starter and Manifold Wrench



This is a very popular tool for use on the starter and manifold nuts of many late model cars. The double hex. openings are 9/16" and 3/4". The length is 7 1/2".

No. 2883 Manifold Wrench for Chrysler



A special tool of Chrome-Vanadium Steel designed for use on the manifold nuts of Chrysler-made cars. This tool is chrome plated with heads buffed to a high and permanent lustre. The double hex. openings are 5/8" and 9/16". Length 9".

Miscellaneous Tools

Vise Grip Pliers



This type tool is actually an adjustable end wrench, super plier, vise, clamp, locking wrench, pipe wrench, toggle press — all in one. Holds parts for drilling, welding, etc. Never slips and ideal for crimping, bending, forming or twisting. Built to lock to the job with hands removed. Made of special alloy steel and heat treated for utmost toughness.

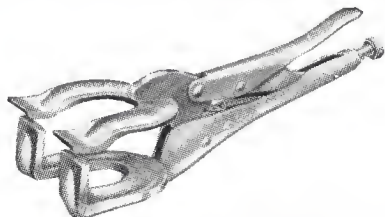
Standard Type as Illustrated

VG 7 7" long — Opens up to $1\frac{1}{8}$ "
VG 10 10" long — Opens up to $1\frac{1}{4}$ "

Thin Nose Type with Side Cutter

7 W 7" long — Opens up to $1\frac{5}{8}$ "
10 W 10" long — Opens up to $1\frac{7}{8}$ "

No. 9 Vise-Grip Welding Clamp



Now, welding is a quick, easy job! Place the jaws over the split to be welded . . . close the toggle-lever . . . this LOCKS the jaws to the work with a solid grip. The edges to be welded are brought into alignment . . . and HELD securely . . . freeing both hands for handling the welding equipment.

End-screw provides quick jaw-adjustment up to $1\frac{5}{8}$ ", making this clamp ideal for all kinds of welding, soldering and riveting tin work, sheet metal work, etc., and for holding steel rods, bars, pipes, etc. Jaw thickness $2\frac{3}{4}$ ". Length 9".

Pipe Wrenches Straight Pattern



These Pipe Wrenches have long been famous for their remarkable durability under hard usage. They are drop forged from specially selected steel and carefully heat treated. The unbreakable housing and free-moving nut are features that will be appreciated by all good mechanics.

No.	Size	Grips Pipe
NSP 6	6"	$\frac{1}{8}$ " to $\frac{3}{4}$ "
NSP 8	8"	$\frac{1}{8}$ " to 1"
NSP 10	10"	$\frac{1}{8}$ " to $1\frac{1}{2}$ "
NSP 14	14"	$\frac{1}{4}$ " to 2"
NSP 18	18"	$\frac{1}{4}$ " to $2\frac{1}{2}$ "
NSP 24	24"	$\frac{1}{4}$ " to 3"
NSP 36	36"	$\frac{1}{4}$ " to $4\frac{1}{2}$ "
NSP 48	48"	1" to 6"

For General Repairs

Allen Head Screw Wrenches

These wrenches are practically indispensable in modern shops. All late model motors are using hollow head cap screws and set screws on which these wrenches must be used.

No.	Hex. Across Flats	No.	Hex. Across Flats
W 1	.050	W 8	$\frac{1}{4}$ "
W 2	$\frac{1}{16}$ "	W 10	$\frac{5}{16}$ "
W 2 $\frac{1}{2}$	$\frac{5}{64}$ "	W 12	$\frac{3}{8}$ "
W 3	$\frac{3}{32}$ "	W 16	$\frac{1}{2}$ "
W 4	$\frac{1}{8}$ "	W 18	$\frac{9}{16}$ "
W 5	$\frac{5}{32}$ "	W 20	$\frac{5}{8}$ "
W 6	$\frac{3}{16}$ "	W 24	$\frac{3}{4}$ "
W 7	$\frac{7}{32}$ "		

W 11 LR Set of 11 Head Screw Wrenches W 1 to W 12 inclusive in leatherette roll.

W 15 LR Set contains one each of Series W 1 to W 24 in leatherette roll.

"LonGriP" Screw Extractors

Rigid "LonGriP" Extractors are positive in operation and easy to use. Simply drill the screw to be removed with the correct size drill (as shown below), deep enough so that the extractor will grip, insert the corresponding extractor, and turn.

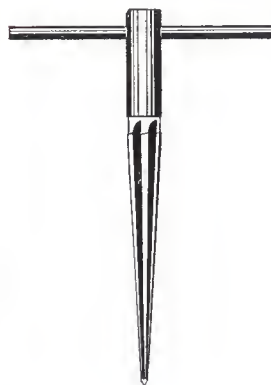
Set No. RE 3 — Extractors Nos. 3, 4 and 5.

Set No. RE 5 — Extractors Nos. 1, 2, 3, 4 and 5.



No.	Fits Screw	Use Drill	O.D.	Length	Depth
SE 1	$\frac{1}{4}$ "	$\frac{1}{8}$ "	.139	$2\frac{5}{16}$ "	1"
SE 2	$\frac{5}{16}$ "	$\frac{3}{16}$ "	.205	$2\frac{3}{4}$ "	1"
SE 3	$\frac{3}{8}$ "	$\frac{1}{4}$ "	.272	$3\frac{1}{16}$ "	1"
SE 4	$\frac{7}{16}$ "	$\frac{5}{16}$ "	.338	$3\frac{5}{16}$ "	1"
SE 5	$\frac{1}{2}$ " - $\frac{9}{16}$ "	$1\frac{1}{32}$ "	.374	$3\frac{3}{4}$ "	1"

No. 56 Repairman's Taper Reamer

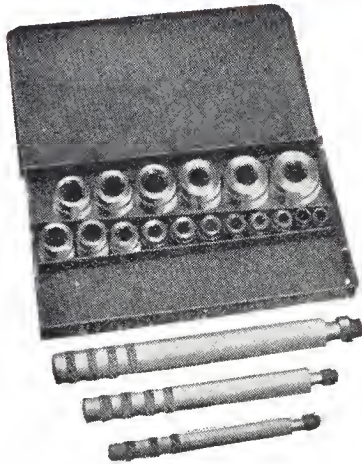


Very useful for removing burrs, enlarging and aligning holes in sheet metal, aluminum, etc., also handy for starting taps. A necessity for automobile mechanics, machinists, radio and television servicemen. Sufficiently oversize so they may be resharpened and still maintain full range. Constructed with round shanks making them adaptable for use with an electric drill by removing T-handle. The No. 56 Reamer is mounted on a display card and packed 12 to a box.



Bushing Drivers and Expansion Reamers

Bushing Driver Set No. BU 40



This Bushing Driver Set is designed to drive all passenger car bushings and many truck and tractor bushings.

These tools are made of alloy steel carefully hardened and tempered to give the best of service.

Guaranteed against defects in workmanship and materials.

Packed in a metal box $7\frac{7}{8}$ " long; $4\frac{1}{8}$ " wide; 1" high.

Set includes

	Bushing I.D.	Drive O.D.	Fits Handle No.
40-1 Driver	$1\frac{3}{32}$ "	$7\frac{1}{16}$ "	42-1, 42-2
40-2 Driver	$7\frac{1}{16}$ "	$1\frac{1}{2}$ "	42-1, 42-2
40-3 Driver	$1\frac{1}{2}$ "	$9\frac{1}{16}$ "	42-1, 42-2
40-4 Driver	$1\frac{1}{2}$ "	$5\frac{5}{8}$ "	42-1, 42-2
40-5 Driver	$9\frac{1}{16}$ "	$5\frac{5}{8}$ "	42-1, 42-2
40-6 Driver	$9\frac{1}{16}$ "	$11\frac{1}{16}$ "	42-1, 42-2
40-7 Driver	$3\frac{9}{64}$ "	$4\frac{3}{64}$ "	42-1, 42-2
40-8 Driver	$5\frac{5}{8}$ "	$3\frac{3}{4}$ "	42-1, 42-2
40-9 Driver	$11\frac{1}{16}$ "	$13\frac{1}{16}$ "	42-1, 42-2
41-1 Driver	$4\frac{7}{64}$ "	$5\frac{5}{64}$ "	42-3
41-2 Driver	$3\frac{3}{4}$ "	$7\frac{7}{8}$ "	42-3
41-3 Driver	$13\frac{1}{16}$ "	$15\frac{1}{16}$ "	42-3
41-4 Driver	$5\frac{5}{64}$ "	$6\frac{3}{64}$ "	42-3
41-5 Driver	$7\frac{7}{8}$ "	1"	42-3
41-6 Driver	$15\frac{1}{16}$ "	$11\frac{1}{16}$ "	42-3
41-7 Driver	1"	$11\frac{1}{8}$ "	42-3
41-8 Driver	$11\frac{1}{16}$ "	$13\frac{1}{16}$ "	42-3
41-9 Driver	$11\frac{1}{8}$ "	$11\frac{1}{4}$ "	42-3
42-1 Handle	$7\frac{1}{16}$ " Dia. x 5" Long		
42-2 Handle	$5\frac{5}{8}$ " Dia. x 6" Long		
42-3 Handle	$3\frac{3}{4}$ " Dia. x $7\frac{3}{8}$ " Long		
43-1 Nut	Fits 42-1 & 42-2		
43-2 Nut	Fits 42-3		
40-7 will drive	Chevrolet Six Water Pump Bushing		
41-1 will drive	Chevrolet Six King Bolt Bushing.		
41-3 will drive	Chevrolet Six King Bolt Bushing.		
	(Knee action car.)		

Expansion Type Reamers and Pilots



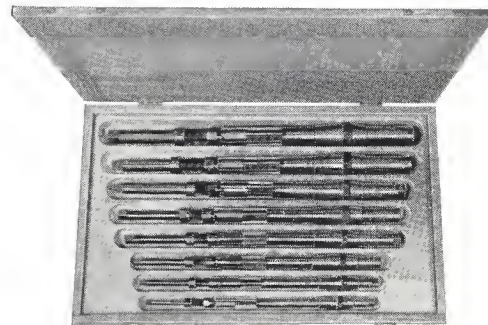
Individual Reamer Specifications

No.	Size	Length Overall		No. of Blades
		Reamer	Blades	
8 A	$1\frac{1}{4}$ " to $9\frac{3}{32}$ "	$3\frac{1}{2}$ "	$15\frac{5}{8}$ "	4
7 A	$9\frac{3}{32}$ " to $5\frac{1}{16}$ "	$3\frac{3}{4}$ "	$15\frac{5}{8}$ "	4
6 A	$5\frac{1}{16}$ " to $11\frac{1}{32}$ "	4"	$15\frac{5}{8}$ "	4
5 A	$11\frac{1}{32}$ " to $3\frac{3}{8}$ "	$4\frac{1}{4}$ "	$17\frac{7}{8}$ "	4
4 A	$3\frac{3}{8}$ " to $13\frac{1}{32}$ "	$4\frac{1}{2}$ "	$17\frac{7}{8}$ "	4
3 A	$13\frac{1}{32}$ " to $7\frac{1}{16}$ "	$4\frac{3}{4}$ "	$17\frac{7}{8}$ "	6
2 A	$7\frac{1}{16}$ " to $15\frac{1}{32}$ "	5"	$17\frac{7}{8}$ "	6
A	$15\frac{1}{32}$ " to $17\frac{1}{32}$ "	$5\frac{1}{4}$ "	2"	6
B	$17\frac{1}{32}$ " to $19\frac{1}{32}$ "	$5\frac{3}{4}$ "	2"	6
C	$19\frac{1}{32}$ " to $21\frac{1}{32}$ "	$6\frac{1}{4}$ "	$21\frac{1}{4}$ "	7
D	$21\frac{1}{32}$ " to $23\frac{1}{32}$ "	$6\frac{3}{4}$ "	$21\frac{1}{4}$ "	7
E	$23\frac{1}{32}$ " to $25\frac{1}{32}$ "	$7\frac{1}{4}$ "	$21\frac{1}{2}$ "	7
F	$25\frac{1}{32}$ " to $27\frac{1}{32}$ "	$7\frac{3}{4}$ "	$21\frac{1}{2}$ "	7
G	$27\frac{1}{32}$ " to $15\frac{1}{16}$ "	$8\frac{1}{4}$ "	3"	7
H	$15\frac{1}{16}$ " to $11\frac{1}{16}$ "	$8\frac{3}{4}$ "	3"	7
I	$11\frac{1}{16}$ " to $1\frac{3}{16}$ "	10"	$31\frac{1}{2}$ "	7
J	$1\frac{3}{16}$ " to $11\frac{1}{32}$ "	11"	$31\frac{1}{2}$ "	7
K	$11\frac{1}{32}$ " to $17\frac{1}{32}$ "	12"	4"	7
L	$17\frac{1}{32}$ " to $12\frac{5}{32}$ "	13"	4"	7
M	$12\frac{5}{32}$ " to $2\frac{7}{32}$ "	15"	$51\frac{1}{4}$ "	7
N	$2\frac{7}{32}$ " to $2\frac{3}{4}$ "	17"	$59\frac{1}{4}$ "	7
O	$2\frac{3}{4}$ " to $31\frac{1}{32}$ "	19"	$61\frac{1}{2}$ "	7

NOTE—When ordering pilots only, simply specify the reamer size. Shanks used for reamers 8A to 2A.

Improved Design — 50% Faster

The improved design of these expansion type reamers is a very definite improvement over the old type. The staggered or unevenly spaced blades set at the correct angle, together with the special retaining collars, eliminates chatter and doubles the life of the reamer. They are constructed so that pilots may be quickly and easily attached, thus doubling the utility of the reamer. The pilots may be purchased separately and will fit all Critchley type reamers.



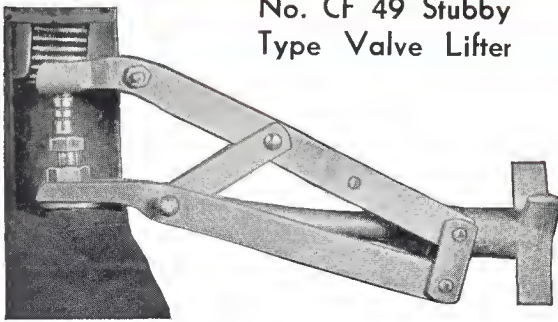
Set No. LO3 (with Pilots Attached)

No. LO 1 Set contains 8 reamers without pilots from $15\frac{5}{32}$ " to $11\frac{1}{16}$ " (sizes A-H) in wooden box. As illustrated.

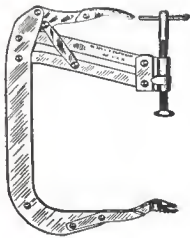
No. LO 3 Set contains the same reamers as LO 1 Set, but with pilots attached.

GRAY-BONNEY Valve Tools

**No. CF 49 Stubby
Type Valve Lifter**



The little stubby has many outstanding features to make it the most popular universal valve lifter on the market to-day. It will service any "L" Head motor having the cylinders in one line and straight stemmed valves. It is so small that it gets in all the tight corners with ease. It has no catches to wear and slip; no pinching of fingers, etc. Not necessary to remove manifolds when you use a Gray-Bonney stubby.



**No. CF 4
Valve Spring Compressor
Small Series**

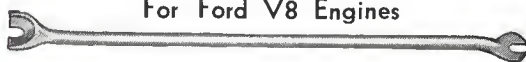
Serves all Chevrolet and many low horse-power motors including some of British make. Also well adapted to many "L" head motors when manifolds are removed. Heavy bar-steel with adjustable jaws, oil tempered. Screw adjustment for plunger depth. Safety over-center lock allows both hands free when spring is raised. Throat $4\frac{3}{4}" \times 6\frac{1}{4}"$.

No. CF 2 Split Lock Replacer



The No. CF 2 is the ideal tool for replacing all types of split keys on Chrysler, Dodge, DeSoto, Plymouth, Studebaker, Oldsmobile and other late model motors. The sliding base prevents the keys from dropping into the motor. Simple to load; easy to operate; much safer than grease.

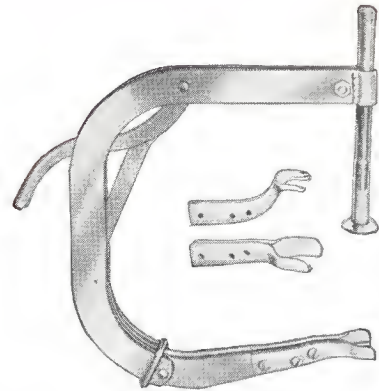
**No. FT 57 Universal Valve Lifter
For Ford V8 Engines**



A Ford Valve Lifter especially designed to fit all models. The double end feature is a definite improvement over the old type and eliminates the necessity of buying two tools. Drop forged from alloy steel and 27" long.

● Not Guaranteed.

**No. CF 11 Valve Lifter
Universal "C" Clamp Type**



Height $10\frac{1}{4}"$; Width $9\frac{1}{2}"$; Handles $1\frac{1}{8}"$ to $1\frac{3}{4}"$ spring.

Equipped with CF 21 Straight Jaws, CF 22 Offset Jaws are included in package.

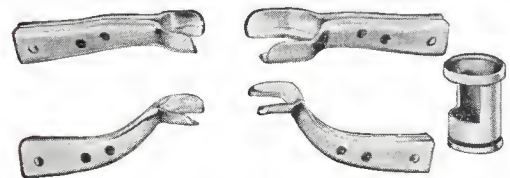
Recommended for all Valve-in-Head Automotive Motors and L-Head Motors which allow working room for the tool. Truly a one-man tool. Easy control. Designed for use with Split Lock Replacer CF 2 for easy and sure handling of Locks without a fumble.

No. CF 16 Valve Lifter

Same as CF 11, but larger.

Height $10\frac{1}{2}"$; Width 12". Takes 1" to $2\frac{1}{2}"$ dia. springs. Equipped with CF 21, CF 22 B, and CF 23 jaws. Especially designed for trucks, buses, tractors, heavy duty motors, also for marine and diesel engines.

Extra Jaws and Adapter for CF 11



CF 21 Straight Jaws — $1\frac{1}{8}"$ to $1\frac{3}{4}"$ capacity. Designed to work with CF 2 Lock Replacer.

CF 22 Offset Jaws $1\frac{5}{8}"$ to $1\frac{3}{4}"$ capacity. Designed to work with CF 2 where Tappet Chamber opening is limited.

CF 23 Large Straight Jaws — $1\frac{5}{8}"$ to $2\frac{3}{4}"$ capacity. Designed for use on Heavy Duty Equipment. Contains large spring openings.

CF 26 Special Adapter — Designed for Cadillac Cars, and Minneapolis-Moline Tractors. Used with CF 11, equipped with CF 21 Straight Jaws and CF 2 for replacement of the Valve Locks.



The Finest Name in Tools

Piston and Special Tools

Piston Ring Compressors

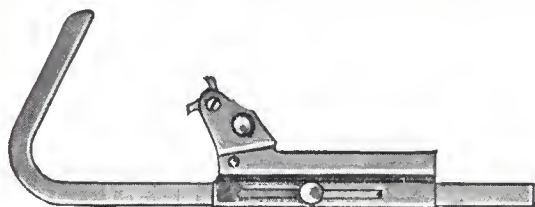


These improved ring compressors are a definite improvement over anything previously offered. The self locking pawl will hold the compression band at any point, and in addition a double tension band is provided. This band of high grade spring steel will reduce breakage to a minimum, and will eliminate flare out at the bottom of the compressor. The handle is made of $\frac{1}{4}$ " stock and can easily be replaced if lost. The beaded

edge will prevent the compressor from entering the cylinder. These tools are made in four sizes, as follows:

- No. RC 1 for cars $2\frac{1}{2}$ " to 5" — Non-locking.
- No. RC 2 for cars $2\frac{1}{8}$ " to 5" — Self-locking.
- No. RC 3 for trucks and Diesel engines with range of $3\frac{1}{2}$ " to 7".
- No. RC 4 same as RC 3 but $6\frac{1}{2}$ " in height with four tension bands.
- No. RC 5 midget ring compressor for British and other foreign cars, also ideal for small gas engines capacity $1\frac{1}{2}$ " to 3".

Ring Groove Cleaners Nos. 223 and 564



Handy and practical tool, which should be in every garage. The cutters can be instantly adjusted to the desired size and will handle pistons from the smallest to 6" O.D. Where a groove has to be deepened for the installation of inner rings this tool is ideal.

- No. 223 — Cutter sizes $\frac{3}{32}$ "; $\frac{1}{8}$ "; $\frac{5}{32}$ "; $\frac{3}{16}$ ".
- No. 564 — Cutter sizes, 2 of $\frac{5}{64}$ ", and one each $\frac{5}{32}$ " and $\frac{3}{16}$ ".

Parts Not Interchangeable.

Shop Knife

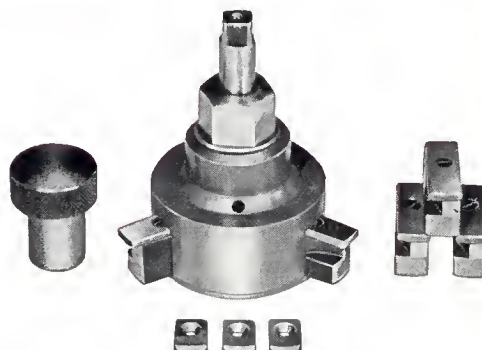


For cutting shims, gaskets, packing, top and upholstery materials, this Knife is unsurpassed. Five razor edge blades fit inside the handle, and a new one can be inserted in an instant.

No. 199 Die Cast Aluminum Handle, Complete with Blades.

No. 199 C Extra Blades are available for these Knives in packages of five.

Universal Cylinder Ridge Reamer No. LO 173



This ridge reamer removes the unworn ridge from the cylinders of all cars with bores from $2-\frac{9}{16}$ " to $4\frac{7}{8}$ ". The supporting lugs are mounted on the blades and expand with them. This eliminates the necessity of removing studs. For cars with recessed heads the lugs are replaced by small plates and the tool rests on the top of the piston while reaming.

No. LO 173 Set, as illustrated, contains one set of three blades with lugs to ream $2-\frac{9}{16}$ " to $3\frac{3}{4}$ ", one set of three blades with lugs to ream $3\frac{3}{4}$ " to $4\frac{7}{8}$ ", one set of three plates and one operating knob, in metal box.

No. 839 Carbon Scraper



Made from spring steel wire to assure long life and flexibility. Permits scraping uneven contours on cylinder head blocks.

Clutch Alignment Set No. CA 41

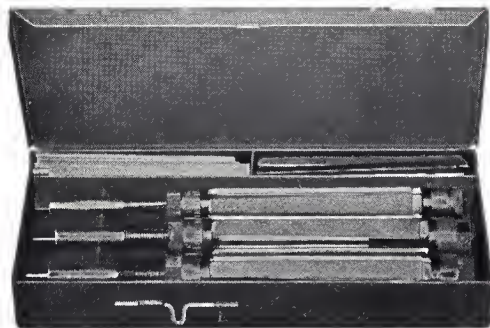
This is a complete set that will handle the clutches of nearly all cars. The assortment of six pilots included in set results in one tool that will give quick, accurate clutch alignment. Supplied in a metal box $10\frac{1}{4}$ " x $1\frac{3}{4}$ " x $1\frac{3}{4}$ ". Net weight approximately 5 lbs.



GRAY-BONNEY Miscellaneous Tools

No. LO 200 Honing Set

For Piston Pins and King Bolt Bushings



No. LO 200 Complete set as illustrated, consisting of 3 Hones with coarse abrasives mounted, 9 coarse refills (3 sets), one set of shims (3), and one set of burnishers (3), range $\frac{3}{4}$ " to 1.115". Each tool has $\frac{1}{8}$ " expansion, $\frac{1}{16}$ " with the blades resting solid in the grooves and $\frac{1}{16}$ " more with a set of shims under the blades.

No. LO 201 — Coarse abrasives (1 dozen).

No. LO 201 F — Fine abrasives (1 dozen).

No. LO 202 — Set of three burnishers.

No. LO 203 — Set of three shims.

Magnetic Pick-Up Tools

No.	Length
K 1	9"
K 2	27" extended
K 3 (Flexible)	18"

The K 2 has a telescope type extension handle. These extremely useful tools have a powerful magnet in the hinged end. They are designed for extracting metal objects from tight places and work equally well on screws, washers, nuts, bolts, taper pins, valve pins, etc.



K 906 Pocket Clip Type, with Alnico Magnet, picks up $\frac{3}{4}$ lb. or more.

For Greater Efficiency

Screw Starters

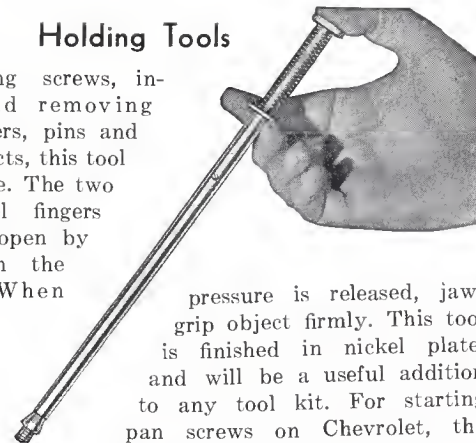


The time-saving answer to exasperating fumbling with short screws in tight places. Starts or removes all size slot type screws in difficult, inaccessible places with no interfering claws. Grips the screw inside the screw slot with a 15 pound pull . . . Releases automatically and re-sets as screw is tightened.

Regular Aluminum		Nylon Non-Conductor	
No.	Length	No.	Length
125	2 $\frac{1}{2}$ "	NH 2	2 $\frac{1}{2}$ "
127	5"	NH 6	6"
129	9"	NH 9	9"
215	15"	Special lengths upon request	
224	24"		

Holding Tools

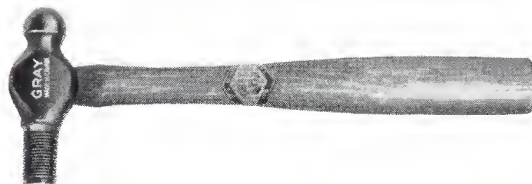
For starting screws, inserting and removing small washers, pins and similar objects, this tool is invaluable. The two spring steel fingers are forced open by pressure on the plunger. When



pressure is released, jaws grip object firmly. This tool is finished in nickel plate, and will be a useful addition to any tool kit. For starting pan screws on Chevrolet, the No. K 8 is unequalled.

No.	Reach	Length
K 4	3"	5 $\frac{3}{4}$ "
K 6	6"	8 $\frac{3}{4}$ "
K 8	10"	12 $\frac{3}{4}$ "
K 9	Fully Flexible	18"

NV-10 Nozzle Valve Tool



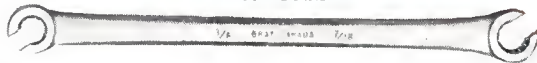
A new tool for releasing stuck pintles in Bosch Diesel Injector Systems. Place nozzle assembly in equipment sleeve nut and screw tightly on tubular end of tool, then strike ball end on anvil or other solid object. Action is same as knock-off wheel puller. Head is drop forged and fully heat treated. This is a real time and money saver for mechanics who service Bosch Injectors.



GRAY-BONNEY Brake Tools

Special Tools for Late Model Cars

No. 2891S



Flare Nut Wrench, used for removing and installing hydraulic connections at master and wheel cylinders on most passenger cars and trucks. Size $\frac{3}{8}$ " x $\frac{1}{16}$ ".

No. 2563



Brake Anchor Wrench, specifically designed for adjusting the brake anchors on Chrysler, Dodge, De Soto and Plymouth passenger cars. Length 14" long.

No. 2561



Open End 15° Angle Wrench, designed to fit the eccentric adjusters for the front secondary shoes of 1955 Lincolns, Mercurys and Fords. Size $\frac{3}{16}$ " x $\frac{1}{4}$ ".

Nos. 2566 and 2566 A Brake Tools



For making brake adjustments on cars equipped with Bendix brakes. Forged from alloy steel.

No. 2566 has $\frac{1}{2}$ " blades, is 7 $\frac{1}{2}$ " long.

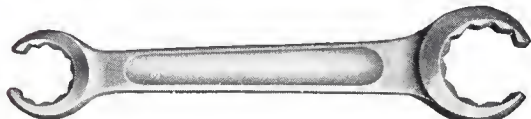
No. 2566 A has $\frac{1}{2}$ " blades with one straight end, in 8" long.

No. 2357 D Ford Brake Wrench



For making adjustments on brakes on Ford cars and trucks. Has double square openings in $\frac{7}{16}$ " and $\frac{1}{2}$ " sizes. Drop-forged of alloy steel and chrome plated. Length 10 $\frac{3}{4}$ ".

No. 2612 and 2618 Brake Tools For Removing Brake Line Flare Nuts



Slotted box wrenches for use when removing or installing brake line flare nuts. Drop-forged of alloy steel and chrome plated.

No. 2612 has $\frac{3}{8}$ " and $\frac{1}{2}$ " openings required for servicing Ford, Mercury, Monarch and Lincoln.

No. 2618 has openings of $\frac{7}{16}$ " and $\frac{9}{16}$ " for use on most other hydraulic brake systems.

No. LO 925 Hydraulic Brake Cylinder Hone

Simple but sturdy construction makes it easy and inexpensive to operate and assures long, satisfactory service.

Each of the two small bodies has one set of three blade slots. The one body has shallow slots and the other has slots $\frac{1}{32}$ " deeper. One set of blades expands $\frac{1}{16}$ of an inch in each set of slots or, moving them from one set of slots to another gives $\frac{1}{8}$ of an inch expansion; using the three sets of blades in this manner gives $\frac{3}{16}$ of an inch expansion in each of the small bodies, and $\frac{3}{8}$ of an inch expansion in the medium and large bodies so that the set illustrated with the four bodies has a range of from $\frac{3}{4}$ " to 1 $\frac{7}{8}$ " which covers most pleasure cars and trucks.



No. LO 925 — Range $\frac{3}{4}$ " to 1 $\frac{7}{8}$ ", contains four bodies, three sets of three blades (small, medium and large), with abrasives mounted, eighteen extra abrasives (nine coarse and nine fine). Special 1" cup screw to be used on medium size body when honing step bore cylinders and flexible driving shaft adaptable to $\frac{1}{4}$ " or $\frac{1}{2}$ " electric drill, put up in neat metal box.

Individual parts for L 0925 set:

LO 899 C — Coarse hone abrasives (1 dozen).

LO 899 F — Fine hone abrasives (1 dozen).

LO 920 — Flexible driving shaft.

No. 531 Brake Spring Compressor



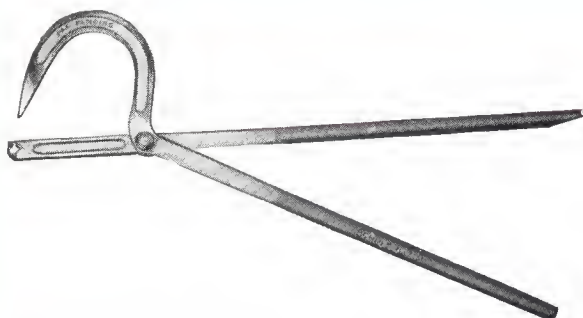
Place tapered end of tool on steel cup, then place index finger of other hand on head of pin located on rear of back-up plate. Push in on tool until arrow head of pin is uncovered. Make one quarter turn — release pressure and the cup comes off the spring. Fits all regular and flat cups.

No. 2629 Brake Wrench

A single head box wrench with Double Hex. Opening 1 $\frac{1}{16}$ " for Chrysler cars.

Pliers

No. 2680 Brake Spring Plier



An unusually efficient brake spring plier designed especially for the removal and replacement of internal brake springs on all types and sizes of trucks, and many passenger cars. Size 13".

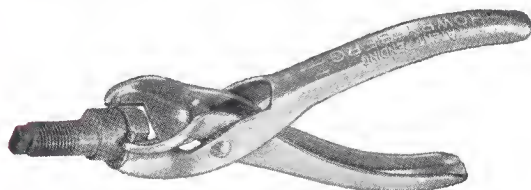
No. 525 Brake Spring Plier



An extra slim, light brake plier designed for use on all passenger cars and light trucks. Size 13"

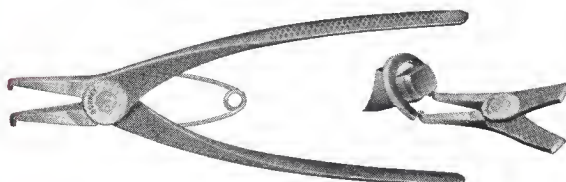
● Not guaranteed.

No. 530 "C" Washer Brake Plier



This special tool is for removing, installing and crimping hydraulic brake "C" lock washers. The most stubborn "C" lock washer can be easily removed with this tool. Size 7 1/4".

No. B 21 Lock Ring Plier



Designed especially to spread the snap lock rings and horse shoe type of brake key in order to remove them from brakes, transmissions, pedal, clutch and fan pulley shafts when removing them from assembly. Drop forged of chrome alloy steel. Outside of jaws are toothed to prevent any possibility of slipping. Plier will spread any lock ring washer up to 1 1/4" diameter. Size 8".

● Not guaranteed.

For Specialized Services

Combination Plier



Sturdily built, forged, heat treated and plated Slip Joint Bolted Combination Pliers in four lengths.

No. B 5 — 5"

No. B 8 — 8"

No. B 6 — 6"

No. B 10 — 10"

**No. B 310 — 10"
Full Finish Combination Plier**



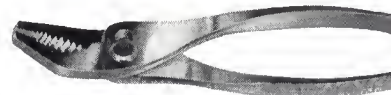
A high grade Combination Slip Joint Plier with flat type cutter. Full polish and chrome plate.

No. B 28 Heavy Duty Slip Joint Plier



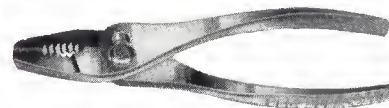
Here is a good alloy steel long service Slip Joint Plier with notch type cutter. All mechanics should own a pair of these long heavy duty pliers. Black oxidized rust resistant finish with polished head. Size 10".

**No. B 41 — 6"
Thin Bent Nose Plier 30° Angle Slip Joint**



Finished with full polish and chrome plate.

**No. B 55 — 5" No. B 56 — 6"
Thin Straight Nose Slip Joint Plier**



Specially adapted for work of a fine nature. The thin nose will reach and grip objects where the ordinary plier will not. The teeth in the jaws are sharp and strong and can give a good grip. Full finish and chrome plate.

GRAY-BONNEY

Automotive Pliers

No. B 30 — 7" Duck Bill Wiring Plier



Square gripping jaws for work in confined quarters. The long thin jaws will reach into places where ordinary pliers will not go. Polished head and gun metal handles.

No. B 47 Duck Bill Pliers



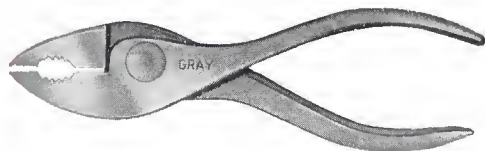
This is a very practical Plier for use when working on equipment where little operating space is available. The long leverage grips provide for powerful leverage. Ideal for use when working on carburetors, ignition or similar units. Black oxidized rust resistant finish with polished head. Size 8".

No. LS 26 — 6"
Thin Nose Slip Joint Side Cutting Plier



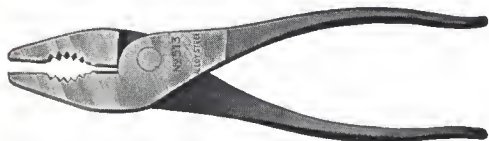
This is the regular Thin Nose Plier with a side cutter added. Ideal for general use. Chrome plate with full finish.

No. B 16 General Purpose
Slip Joint Side Cutting Plier



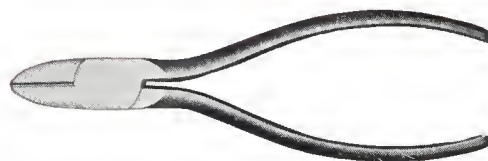
A well balanced medium priced Plier. It provides strong gripping power and has excellent side cutter knives. Forged from Chrome-Vanadium steel with knurled handles. Polished and fully finished in lustrous chrome. Size 6".

No. B29
Mechanics' Slip Joint Side Cutting Plier



Forged from Chrome-Vanadium steel, hardened and tempered, this plier is designed for hard usage. The sharp cutting side knives are ground to assure their longer life. The well designed head has a flush rivet on one side. Polished head and fully chrome plated. Size 7".

No. 41 — 4" Diagonal Cutting Pliers
No. 942 — 5"



Drop forged of the finest quality alloy steel, these small size Electrician's Diagonal Cutting Pliers are a practical addition to any tool kit. Black oxidized rust resistant finish with polished head.

No. B 17 — 6" Diagonal Cutting Plier



A high grade medium size Diagonal Cutting Plier with accurately ground cutter jaws. Drop forged from Chrome-Vanadium steel. A sure cutter and a real cotter pin puller. Black oxidized rust resistant finish with polished head. Size 6".

No. B 18 — 7" Diagonal Cutting Plier



This high leverage Diagonal Cutter Plier is for heavy duty service. The accurately ground cutting edges assure easy cutting. Drop forged of Chrome-Vanadium steel. Black oxidized rust resistant finish with polished head.

No. 39 — 7" Heavy Duty Diagonal Cutting Plier



Drop forged of fine alloy steel, this plier has hand-honed cutter knives that cut clean and will stand up. Designed to give great leverage in cutting as well as pulling cotter keys. Black oxidized rust resistant finish with polished head.

Lineman's Pliers

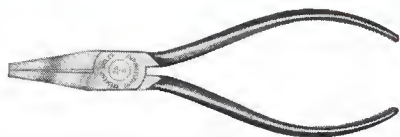


No. B 22—6" No. B 23—8"

General utility standard Cutting Pliers for linemen and other electricians. Drop forged from alloy steel and carefully heat treated. Available in two sizes. Black oxidized rust resistant finish with polished head.

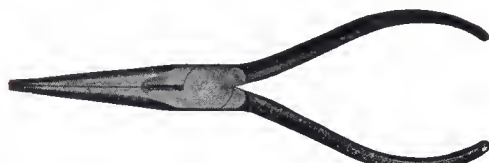
Automotive Pliers

No. B 13 — 5" Flat Nose Plier



A light Plier for fine work. Checker knurling in jaws gives firm grip. Smoothly working joint and handles shaped to fit the hand comfortably. No cutter. Polished head and gun metal handles.

No. B 25
Long Nose Side Cutting Plier



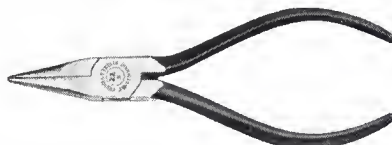
This long, spring tempered nose, side cutting, drop forged Plier is from alloy steel carefully heat treated. The keen edged cutter will cut any non-hardened wire found in automotive work except the heavier ignition wires and battery cables. Black oxidized rust resistant finish with polished head. Size 6".

No. B 42 — 6" Curved Needle Nose Plier



The long thin nose of this plier is bent at an angle which makes it very handy for reaching into far out-of-the-way corners. Jaws will not break off even though sprung or twisted out of shape. They will return to normal when pressure is released. Polished head and gun metal handles.

No. B 14 — 5" Short Chain Nose Plier



A Plier for doing fine, close mechanical work. No cutter. Accurately machined joint insures smooth, easy operation. Polished head and gun metal handles.

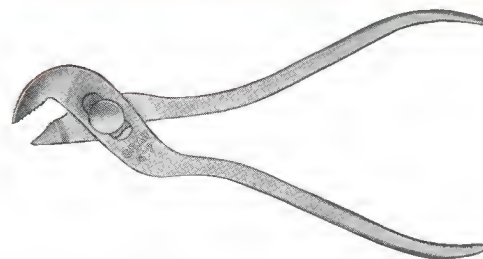
No. B 46 — 8" Chain Nose Plier



A short nose, long reach, Chain Nose Plier for work in radio and television maintenance. Reaches easily into hard-to-get-at places without obstructing the view. Will form loops and bends of all sizes. Box joint construction resists loosening and twisting action and keeps it firm and easy working long after ordinary pliers are worn out. Polished head and Parkerized handles.

Tools For Every Job

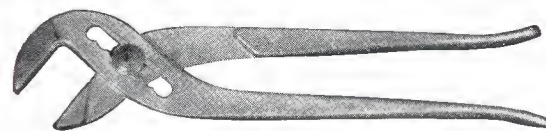
No. 517 Slip Joint Ignition Plier



This delicate Ignition Plier is designed for use on all ignition units and on other equipment where small nuts and bolts are encountered. Drop forged from Chrome-Vanadium steel, the head is correctly designed providing three opening adjustments. It is spring tempered and fully chrome plated. ● Not guaranteed. Factory repairs 45c net. Size 4 1/4".

No. 258

Water Pump and Electricians' Lock Nut Plier



This improved quality multi-use drop forged alloy steel Plier is for use on adjustable packing and lock nuts. It has a positive grip action with six different opening adjustments. Maximum opening two inches. Polished head and fully chrome plated. Size 9 1/2".

No. 523 Thin Angle Nose Slip Joint Gripping Plier



A strong Gripping Plier with teeth set as in a pipe wrench. Will not slip on a smooth, round surface. There are three different opening adjustments and the jaws open to take up to one inch. Drop forged of high grade alloy steel, with polished head. Size 7".

No. 522 Angle Nose Battery Plier



The handiest drop forged alloy steel Plier ever designed for use when loosening or tightening the terminal nuts on battery cables. Polished head and fully finished in chrome. Size 7 1/2".

No. 526 Round Nose Battery Plier



For those who prefer a Battery Plier with the round nose. Nickel plated and painted handles. 7 1/4" long.

Punch and Chisel Sets

No. C 46 Punch and Chisel Set



No. C 46 Punch and Chisel Set. Set No. C 46 contains a compact assortment of seven chisels and six punches to serve everyday needs. Content includes:—Flat Chisel Nos. C 2, C 3, C 4, C 5, C 6; Cape Chisel No. C 12; Diamond Point Chisel No. C 15; Pin Punch Nos. C 28, C 29, C 30; Centre Punch No. C 34; Long Taper Punch Nos. C 25, C 26. Every piece is forged from high quality alloy steel and properly heat treated. The heads and working bits are full finished with shafts in baked blue enamel.

Set No. C 46-CB — in cardboard box.

Set No. C 46-LR — in leatherette roll.

No. C 47 Punch and Chisel Set

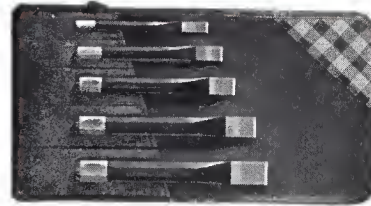


Set No. C 47 is for the man requiring a complete set of Chisels and Punches. It contains thirteen Chisels, ten Punches, a Rivet Buster and a Pry Bar. Content includes: Flat Chisel Nos. C 2, C 3, C 4, C 5, C 6, C 7; Cape Chisel Nos. C 12, C 13; Long Flat Chisel No. C 10; Diamond Point Chisel Nos. C 15, C 16; Round Nose Chisel Nos. C 18, C 19; Long Taper Punch Nos. C 25, C 26; Prick Punch No. C 32; Solid Punch Nos. C 21, C 22, C 23; pin Punch Nos. C 28, C 29, C 30; Center Punch No. C 34; Rivet Buster No. C 36 and Pry Bar No. C 38. Every piece is forged from high quality alloy steel and properly heat treated. Full finished heads and working bits with shafts in baked blue enamel.

Set No. C 47-CB—In cardboard box.

Set No. C 47-LR—In leatherette roll.

No. C 45 Flat Chisel Set



This set of Gray-Bonney Flat Chisels completely covers the range required in everyday service work. It contains the following Flat Chisels: Nos. C 2, C 3, C 4, C 5, and C 6, having cutting blade widths of $\frac{1}{2}$ ", $\frac{3}{8}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ ", and 1". All are forged from the highest quality alloy steel of a specification most suitable for this type of tool. They are properly heat treated to assure hard, tough cutting ability. Their octagon baked blue enamel shafts offer an easy, secure grip. Cutting blades and striking heads are full finished.

Set No. C 45-CB—In cardboard box.

Set No. C 45-LR—In leatherette roll.

No. PC 39 Dealer's Merchandiser



Here is an ideal Punch and Chisel counter type Merchandiser. It contains the most popular tools of this type. It was created on popular demand as an aid to sales and service. The unit is constructed with a red masonite back panel mounted on a varnished maple base bearing part numbers. This Merchandiser complete with tools is contained in a strong shipping carton. Content includes: two each Pin Punch Nos. C 28, C 29, C 30; two each Long Taper Punch Nos. C 25, C 26; two each Solid Punch Nos. C 21, C 22, C 23; two each Prick Punch No. C 32; four Center Punch No. C 34; three each Flat Chisel Nos. C 2, C 3; two Flat Chisel No. C 4; one each Flat Chisel Nos. C 5, C 6; two each Cape Chisel Nos. C 12, C 13; two Round Nose Chisel No. C 18; one Round Nose Chisel No. C 19.

GRAY-BONNEY Punches and Chisels

Gray-Bonney has spared no effort to offer the best in these types of tools. These quality Punches and Chisels are forged from special Silicon-Manganese alloy steel and are carefully heat treated. Mechanics find that the bits are hard and tough enough to work on any untempered material, but still sufficiently soft to be sharpened with a file. They have well crowned, comparatively soft heads, which reduce chipping and allow them to be readily redressed when battered. Blade tips and heads full polished, handles finished in baked blue enamel with orange inlay markings.



PIN PUNCHES

No.	Size Stock	Point Diameter	Length
C 28	3/8"	1/8"	5"
C 29	1/2"	3/16"	5 5/8"
C 30	5/8"	1/4"	6 3/8"



LONG TAPER PUNCHES

No.	Size Stock	Point Diameter	Length
C 25	3/8"	5/32"	8"
C 26	1/2"	3/16"	9"



SOLID PUNCHES

No.	Size Stock	Point Diameter	Length
C 21	3/8"	1/16"	5 1/2"
C 22	1/2"	3/32"	6 1/4"
C 23	5/8"	1/8"	7"



PRICK PUNCH

No.	Size Stock	Length
C 32	3/8"	5"



CENTRE PUNCH

No.	Size Stock	Length
C 34	3/8"	5"



PRY OR PINCH BAR

No.	Size Stock	Length
C 38	5/8"	16"



PRY BAR — TAPERED END

No.	Size Stock	Length
C 39	9/16"	15 1/4"



FLAT CHISELS

No.	Size Stock	Width of Cut	Length
C 2	3/8"	1/2"	5 1/2"
C 3	1/2"	5/8"	6"
C 4	5/8"	3/4"	6 1/2"
C 5	3/4"	7/8"	7 1/2"
C 6	1"	1"	8"
C 7	1 1/8"	1 1/4"	8 1/2"



LONG FLAT CHISEL

No.	Size Stock	Width of Cut	Length
C 10	3/4"	7/8"	14"



CAPE CHISELS

No.	Size Stock	Width of Cut	Length
C 11	3/8"	1/8"	4 1/2"
C 12	1/2"	1/4"	6"
C 13	5/8"	3/8"	7"



DIAMOND POINT CHISELS

No.	Size Stock	Width of Cut	Length
C 15	1/2"	1/4"	6"
C 16	5/8"	3/8"	7"



ROUND NOSE CHISELS

No.	Size Stock	Width of Cut	Length
C 18	1/2"	1/4"	6"
C 19	5/8"	3/8"	7"



RIVET BUSTER

No.	Size Stock	Width of Cut	Length
C 36	3/4"	5/8"	12"



LINING-UP PUNCHES (Silico-Manganese Steel)

No.	Size Stock	Point Diameter	Length
8385	3/4"	5/16"	18"
8386	5/8"	5/16"	15"



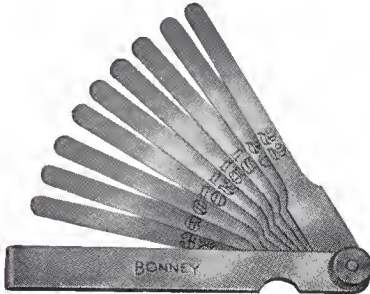
Sets Are Best

GRAY-BONNEY Feeler Gauges

Gray-Bonney Feeler Gauges, made from the finest imported Swedish Steel, carefully heat treated and tempered to withstand wear. Each blade is tested to insure the exact thickness which is etched on it.

No. K 49 Feeler Gauge has 4 Offset and 3 straight blades

The K 49 Feeler Gauge has an .019 offset Blade for setting intake and exhaust valves on 1954 Ford and Mercury's. Also has straight .016 Blade for setting intake valves and straight .019 blade for setting exhaust valves on 1954 6 cylinder Fords.

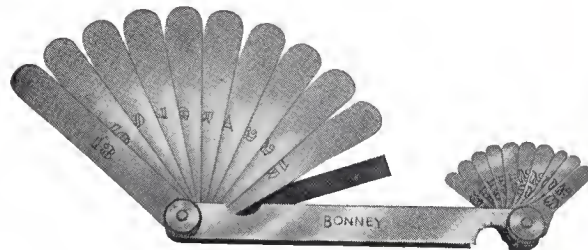


No. K 50 Brake Adjusting Gauge

For measuring clearance between brake and shoe. 9 blades 4" long in the following thicknesses — .006; .008; .010; .012; .015; .018; .020; .022 and .032.

No. K 51 General Purpose Gauge

Especially for tappet and ignition work — the most popular gauge on the market. 10 blades 1½" long, 10 blades 3⅝" long and 3" point file. Short blades in the following thicknesses. .012; .013; .014; .018; .020; .022; .024; .025; .028; .032. Long blades in following thicknesses — .002; .003; .004; .005; .006; .007; .008; .010; .013 and .015.

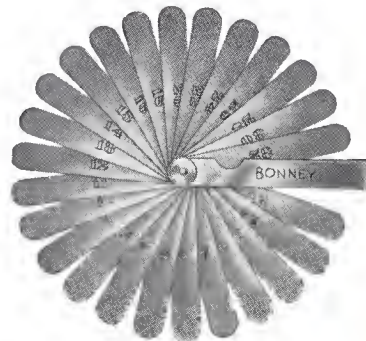


No. K 52 Ignition Gauge

Contains 10 narrow blades 1½" long for ignition distributor points and spark plugs. Thickness of blades as follows — .012; .013; .014; .018; .020; .022; .025; .028; .032 and .035.

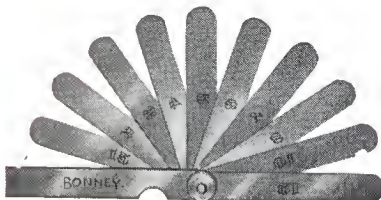
No. K 53 Universal Master Gauge

Has full range of spacers — 25 blades, each 3⅝" long in following thicknesses — .0015; .002; .003; .004; .005; .006; .007; .008; .009; .010; .011; .012; .013; .014; .015; .016; .018; .020; .022; .024; .025; .028; .030; .032 and .035.



No. K 54 Standard Feeler Gauge

Contains 10 blades 3⅝" long in following thicknesses — .002; .003; .004; .005; .006; .007; .008; .010; .012 and .015.



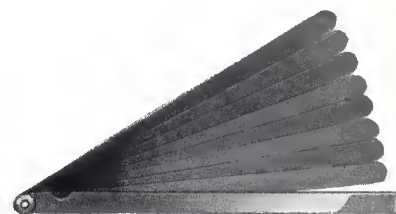
Replacement Blades are available for all Listed Feeler Gauges

GRAY-BONNEY Feeler Gauges

Gray-Bonney Feeler Gauges are equipped with a knurled thumb nut for instant release and selection of blade desired. When tightened, this thumb nut securely holds the blade selected in working position, while blades not needed are securely locked away.

No. K 55 Extra Long Feeler Gauge

Exceptionally useful for checking piston clearances, etc. Has 8 blades, each 9" long in the following sizes — .002; .003; .004; .005; .006; .008; .010 and .015.



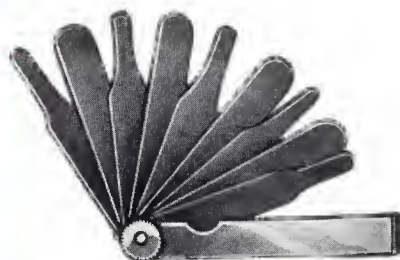
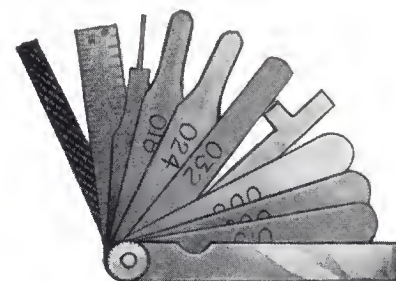
No. K 56 Adjustable Lock Stock Holder

Any thickness of feeler gauge stock coils within the handle and can readily be pulled out for use. Any desired length of strip stock or standard 12" blades may be used. Positive sliding lock securely holds blades. Made from hard drawn, cold rolled steel and satin nickel plated. Length 4½". Weight, 1 oz.



No. K 57 Chevrolet Feeler Gauge

Contains four ½" wide blades — .006; .008; .013 and .032 thicknesses. Three ¼" fingers — .018; .024 and .040 thicknesses. Also a carburetor float depth gauge, tungsten file and 3" scale.



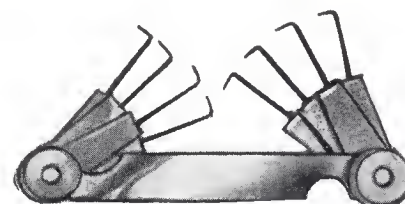
No. K 58 Ford Feeler Gauge

Contains .025 Gauge for spark plugs on Models B and V-8. .022 for valves on Model B. .022 with narrow tip for distributors A and B. .017 for valves on A. .016 for V-8 distributor. .014 with narrow end for V-8 distributor. .014 for valves on V-8. .013 for valves on Models A and B. .035 for spark plugs on Model A.

No. K 59 Spark Plug Gap Gauge

This gauge designed specifically for adjusting spark plug gap settings. The round wire gauges are turned at 90° so recessed electrodes may be reached without difficulty. More accurate than flat gauges for adjusting spark plugs.

Includes sizes: .022, .025, .028, .030, .032, .035, .038, .040, and an electro adjustor.



No. K 60 Feeler Gauge

(Not Illustrated) is an exceptionally fine gauge for all general purpose repairs, with 25 blades ranging in thickness from .0015 to .025.

Feeler Gauge Stock

Made from the same high quality Swedish Steel as used in the Gray-Bonney Gauges. Supplied in handy 12" lengths, each marked as to size and cellophane wrapped in lots of six. Available in following sizes — .0015; .002; .0025; .003; .004; .005; .006; .007; .008; .009; .010; .011; .012; .013; .014; .015; .016; .018; .020; .022; .024; .025; .030 and .032.

A Tool For Every Need



GRAY-BONNEY Service Station Tools

No. M 8 Tire Spreader
(Adjustable)



This is a desirable time-saving tool for the tire service department. It rides easily around the entire circumference of the casing on revolving rollers which are grooved to prevent slipping. Adjustable to spread tires from 5½" to 7¾". Nickel plated. Length 17". Weight 2½ lbs. 6 oz.

No. M 9 Grease Bar
(Universal)



Frozen shackles are easily freed up for greasing by using this one man grease bar. The bar end slips over the spring applying side pressure and is set at an angle of 25° to give easy access to any type of spring. It firmly grips all three spring leaves. The long thin end is knurled to prevent slippage. The use of this bar will eliminate bending, distorting or otherwise damaging shackles in an effort to force lubricant through the bushings. Heat treated and nickel plated. ¾" hex. steel, 2½' long, weight 4 lbs. 6 oz.

No. 840 Wire Scratch Brush



A good quality brush for removing dirt, grease and carbon.

Nos. P 317, P 319 Separators



No. P 317 Shock Link and Stabilizer Link Separator. This tool is a forked wedge type separator, used to free the tapered links of shock absorber or the stabilizer from their mountings. The wedge is inserted between the link and the arm of the assembly and loosened by striking the end of the tool. Length 16". Jaw opening ⅝" wide.

No. P 319 Pitman Arm Separator. This tool is a forked wedge type separator used to dismantle the Pitman arm assembly. The wedge is inserted between the Pitman arm and the shaft. Arm is loosened by striking the end of the tool. Jaw opening 1⅝" and overall length 11¼".

No. 522 Angle Nose Battery Plier



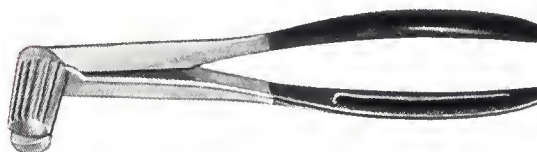
The handiest plier ever designed for battery work. Chrome plated and 7½" long.

No. 526 Round Nose Battery Plier



For those who prefer a Battery Plier with the round nose. Nickel plated and painted handles. 7¼" long.

No. 524 Battery Terminal Spreader



Spreads battery cable terminals. A great help when removing or installing battery cables. Heat treated nickel plated with painted handles. 7⅜" long.

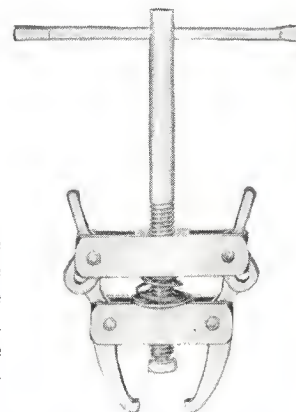
No. 6481 Battery Terminal Wrench



Double end box wrench with ⅞" and ⅝" double hexagon openings. Designed for servicing battery terminal nuts and bolts. 6" long.

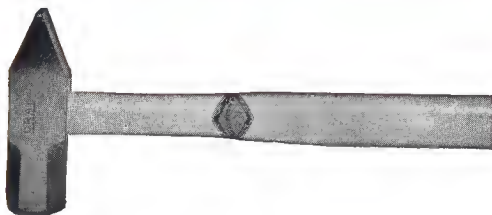
No. 1000 Battery Terminal Puller

A sure grip miniature puller which will remove the most stubborn battery cable terminal. This puller has been redesigned to fit over the large type battery cable terminals on late model cars.



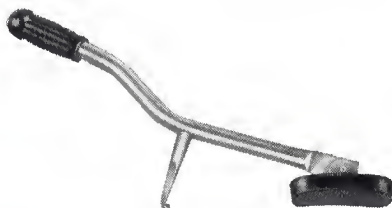
GRAY-BONNEY Service Station Tools

No. PH 19 Tire and Rim Hammer



Drop forged from high grade steel and carefully heat treated. This tire and rim hammer is specially designed for all types of work where such a tool is needed. Full polished head with strong hickory handle. Weight, 3 lbs. Length overall, 16".

No. HC 1 Hub Cap Remover



This Hub Cap Tool prevents chipping of lacquer and the possible damaging of the side walls. To operate simply place the blade under the hub cap lip and pull on the handle. Overall length 15½".

No. 842 Drain Plug Wrench



A sturdy, well cast Wrench to service practically all cars. Nickel plated.

No. 748 Drain Plug Wrench



Designed especially for removing and replacing the drain plugs on late model cars and trucks.

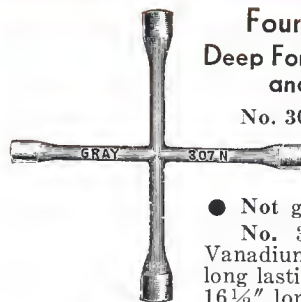
No. M 5 Special Lock Ring Tool



(Improved Type)

For service on trucks with solid and split rings. Length 20". ● Not guaranteed.

Four-Way Rim Wrenches
Deep Forged Sockets ¾", ¾", 13/16" and 7/8". (307 and 308)



No. 307 — Forged from high carbon steel and nickel plated. Arms, 9/16" dia., and 13½" to 14¾" long.

● Not guaranteed.

No. 308 — Forged from Chrome-Vanadium alloy steel and finished in long lasting chrome. Arms 9/16" dia. and 16½" long.

● Not guaranteed.

No. 309 — Special Four-way Rim Wrench for truck wheels. See details in chart below.

No. W 303 S — British Size 4 Way Rim Wrench, with the following ends:

- (1) A screwdriver tip for removing hub caps.
- (2) A ¾" socket opening, to fit Anglia, Prefect, Consul, Zephyr, Jaguar, and Thames ¼ ton.
- (3) A 7/16" B.S.W. socket opening (53/64 opening) to fit Hillman Minx, Morris Oxford, Sunbeam Talbot, Sunbeam Alpine, Humber Hawk, Commer delivery van, and ½ ton Thames.
- (4) A 3/8" B.S.W. socket opening (32/32 opening) to fit Morris Minor, and Austin A 40.



Truck Rim Wrenches

The truck rim wrenches shown below will cover practically all wheel nuts on present day trucks.

1258 WR	1½" Hex. x 13/16" Sq., 15" long.
7940	13/16" sq. x 1½" Hex., 16¾" long.
7943 A	15/16" Hex. x 7/8" Hex., 15" long.
7944	7/8" Hex. x 13/16" Hex., 17¼" long.
7944 A	7/8" Hex. x 1½" Hex., 15" long.
7944 B	Cross Bar for 7944 only.
1258 B	Cross Bar for other than 7944.
309	Truck 4-way with forged openings 1" Hex.; 1½" Hex. and 7/8" Hex.; 1½" Hex. and 13/16" Sq.; 1½" Hex. Two arms incorporate double size openings, thus providing six socket sizes. Arms 1" round x 25½" long.

No. 1258 WR — Fits Ford, Dodge, Fargo and Budd wheels.

No. 7940 — Fits Budd Wheels.

No. 7943 A — Fits Chevrolet.

No. 7944 — Fits International, White.

No. 7944 A — Fits G.M.C., Diamond T, Reo, Federal.

No. M 6 T Spoon Type Tire Iron



Straight pattern for trucks and passenger cars. Length 23".

No. M 7 T Spoon Type Tire Iron



Curved pattern for trucks and passenger cars. Length 23".

For Specialized Services



GRAY-BONNEY Regular Screw Drivers

Square Shank

Gray-Bonney Square Shank Screw Drivers are made with forged one-piece blades, from special alloy steel, carefully heat treated over their entire length. The handles are of the popular transparent type, which combines toughness and durability with attractive appearance. Screw drivers in the square series are primarily designed for strength and are confidently recommended for heavy work. Blades are formed with an upset shoulder, against which the handles are forced, and the method of anchoring the shank eliminates the possibility of loose handles.

No.	Length of Blade	Width of Tip	Overall Length
S 04	4"	5/16"	7 3/4"
S 06	6"	7/16"	10 1/4"
S 08	8"	1/2"	12 3/4"
S 012	12"	1/2"	17 1/2"

Guarantee—Screwdrivers

Screwdriver Blades are heat treated throughout; broken blades can be reground or returned to factory for regrinding. We cannot accept responsibility for screwdrivers which have been abused.

Electricians

Gray-Bonney Electricians' Screw Drivers are designed with the care and precision so necessary in screw drivers of this type. The blades are forged from special alloy steel, and are heat treated over their entire length. All drivers, regardless of length, are made from 3/16" stock, which makes them invaluable for reaching hard-to-get-at-screws. The handles are made of tough transparent composition, and are non-conductors of electricity.

No.	Length of Blade	Width of Tip	Overall Length
003	3"	3/16"	6 1/2"
006	6"	3/16"	9 1/2"
0010	10"	3/16"	13 1/2"

Round Shank

Gray-Bonney Round Shank Screw Drivers are somewhat lighter than the square type, and are ideal for automotive mechanics. They are made with blades ranging from 4" to 12", and all tips are taper ground, with the entire length of the blades finely polished. The handles are made of moulded composition, and in addition to being extremely durable, are designed to give the user a secure yet comfortable grip. The blade is forged from alloy steel and carefully heat treated over its entire length.

These screw drivers are ideal for electrical work as the handles are non-conductors of electricity.

No.	Length of Blade	Width of Tip	Overall Length
04	4"	1/4"	7 3/4"
06	6"	5/16"	10 1/4"
08	8"	3/8"	13"
010	10"	3/8"	15"
012	12"	7/16"	17 1/2"

Care of Screwdrivers

We frequently receive screwdrivers for grinding which have been used where a tire iron or chisel would have been more suitable. This practice does not save time and usually results in spoiling a good screwdriver.

Wood Handle

Gray-Bonney Wood Handle Screw Drivers are made with the same high grade materials as used in the more expensive drivers. Blades are forged from alloy steel, and are securely anchored in the handles, which are of selected hardwood and beautifully finished.

Tips are taper ground, and the fluted handles give a firm yet comfortable grip. These screw drivers are ideal for mechanics, carpenters, and electricians, and are excellent value.

No.	Length of Blade	Width of Tip	Overall Length
W 03	3"	7/32"	7 1/4"
W 04	4"	1/4"	9"
W 06	6"	5/16"	11 3/4"
W 08	8"	3/8"	14 1/2"
W 010	10"	7/16"	16 1/2"

For Regular Repairs



Special Screw Drivers

Phillips' Screw Drivers

Wood Handle

Phillips' screws are rapidly becoming very popular, and every mechanic should have one or more screw drivers of this type. The sizes listed below will take care of all screws. Blades are forged from alloy steel, and are carefully heat treated. The handles are of hardwood, and attractively finished. ● Not guaranteed.

No.	Blade		Overall Length	Fits Phillips Screws
	Length	Diam.		
WP 1	3"	9/64"	6 1/4"	No. 4 and smaller
WP 2	4"	1/4"	8 3/4"	No. 5 to No. 8 Inc.
WP 3	6"	5/16"	11"	No. 10 to No. 16 Inc.
WP 4	8"	3/8"	14 1/2"	No. 18 and larger

For the mechanic who needs a full set, No. WP Set contains one of each above size. Packed in cardboard box.

Phillips' Screw Drivers

Composition Handle



Where extreme strength is required, these Phillips' Screw Drivers will be ideal. They have the popular transparent handles, with the blades securely anchored to prevent turning. ● Not guaranteed.

No.	Blade		Overall Length	Fits Phillips Screws
	Length	Diam.		
CP 1	3"	9/64"	6"	4 and smaller
CP 2	4"	1/4"	7 3/4"	5 and 9 Inc.
CP 3	6"	5/16"	10 1/4"	10 to 16 Inc.
CP 4	8"	3/8"	11"	18 and larger

Robertson Screw Drivers

With Plastic Handles

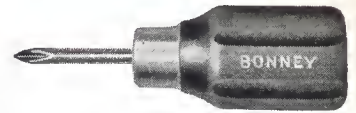
The extensive use of Robertson screws makes it necessary for all mechanics to own a set of Robertson Screw Drivers. Hand Drivers may be distinguished by the different color handles. Green for the No. 1 or smallest point; Red for No. 2 or medium point; and Black for No. 3.

Chart showing sizes of various Socket Screws Driven by each driver

Color	Stubby	Junior	Wood Screws	Machine Screws	Self Tapping Type "C"	Self Tapping "A" and "Z"	
						Rd. or flat Head	Binding oval head
Green	RB 121	RB 1 7" L.	4, 5 & 6	# 6	# 6	# 6 & 7	# 6, 7 & 8
Red	RB 122	RB 2 7" L.	7, 8 & 9	# 8 & 10	# 8 & 10	# 8 & 10	# 10
Black	RB 123	RB 3 7" L.	10, 12 & 14	# 12 & 1/4	# 12 & 1/4	# 12 & 14	# 12 & 1

Short Phillips' Screw Drivers

For cramped quarters—in tightening wind-shield mouldings and on similar jobs—that cannot be reached with regulation length screw drivers, these short drivers will be found convenient. Of quality equal to regulation length wood handle screw drivers for Phillips' Screws. ● Not guaranteed.



No.	Blade		Fits Phillips Screw
	Length	Diameter	
SP 1	1"	9/64"	No. 4 and Smaller
SP 2	1 3/8"	1/4"	No. 5 to No. 9 Inc.

No. 0672 Offset Screw Driver Set



The Offset Screw Drivers illustrated are well adapted for work in the "hard-to-get-at" places and are well suited for ignition, carburetor, generator and starter work. Forged from selected alloy steel, correctly hardened and tempered to withstand strain. Can be purchased singly or in complete sets of three in leatherette roll, as illustrated.

No. 0672 Set in Roll.

No.	Size Stock	Length
0669	1/4"	4"
0671	3/8"	6"
0673	1/2"	7"

Robertson Screw Drivers

With Plastic Handles

The extensive use of Robertson screws makes it necessary for all mechanics to own a set of Robertson Screw Drivers. Hand Drivers may be distinguished by the different color handles. Green for the No. 1 or smallest point; Red for No. 2 or medium point; and Black for No. 3.

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Green	RB 121	RB 1 7" L.	4, 5 & 6	# 6	# 6	# 6 & 7	# 6, 7 & 8
Red	RB 122	RB 2 7" L.	7, 8 & 9	# 8 & 10	# 8 & 10	# 8 & 10	# 10
Black	RB 123	RB 3 7" L.	10, 12 & 14	# 12 & 1/4	# 12 & 1/4	# 12 & 14	# 12 & 1



Stubby Type

Regular Type

Special Screw Drivers

No. 001 Pocket Size



A very handy screw driver for the mechanic. Clip for holding driver in pocket supplied with each driver. Blade heat treated and handle non-conducting composition. Tip $\frac{1}{8}$ ", overall length $4\frac{3}{8}$ ". ● Not guaranteed.

No. 00 A Midget

A tiny screwdriver that is ideal for use on delicate electrical and ignition apparatus. The blade is only $1\frac{1}{2}$ " long with a $\frac{1}{16}$ " tip, with an overall length of $2\frac{3}{8}$ ". Handle is of non-conductor type. ● Not guaranteed.

No. E 02 Neon Tube Pocket Type



Neon Tube in the handle for testing spark plugs; a tough composition handle that is a non-conductor of electricity, a magnetized tip; and a strong pocket clip. The blade is made of alloy steel and is firmly anchored in the handle. Length of blade, $2\frac{1}{4}$ "; width of tip, $\frac{1}{8}$ ".

● Not guaranteed.

No. E 03 Neon Tube Electrical Type



A most useful tool for automotive and electrical work. Built to stand hard usage. Has Neon Tube in handle.

When testing spark plugs, a brilliant orange flash shows plug is O.K. Completely shorted plugs produce no flash. A stringy flash indicates plug is fouled. Size 3"; width of tip $\frac{3}{16}$ ". ● Not guaranteed.

Replacement Neon Tubes available.

NOTE—Owing to the delicate construction of the blades in 001, 00 A, E 02 and E 03 drivers and the Neon Tubes in E 02 and E 03, they are not guaranteed against breakage.

Clutch Head Screw Drivers

Made of alloy steel carefully heat treated to withstand severe usage. Handles are of transparent, non-conducting composition.



No.	Clutch Size	Blade Length	Overall Length	Nominal Size of Screw
CL3	$\frac{5}{32}$ "	4"	$7\frac{3}{4}$ "	No. 6 Flat, Oval Counter-sunk, Fillister & Hex. Heads. No. 8 All Heads. No. 10 Round, Fillister, Binding & Hex. Heads. No. 12 Flat & Oval Counter-sunk Heads.
CL5	$\frac{1}{4}$ "	6"	$10\frac{1}{4}$ "	No. 14 & $\frac{1}{4}$ " All Heads. $\frac{5}{16}$ " All Heads.
CL7	$\frac{5}{16}$ "	6"	$10\frac{1}{2}$ "	$\frac{3}{8}$ " Round, Fillister, Binding & Hex. Heads.
CL13	$\frac{5}{32}$ "	$1\frac{5}{8}$ "	$3\frac{3}{8}$ "	No. 6 Flat, Oval Counter-sunk, Fillister & Hex. Heads. No. 8 All Heads. No. 10 Round, Fillister, Binding & Hex. Heads.
CL15	$\frac{1}{4}$ "	$1\frac{5}{8}$ "	$3\frac{3}{8}$ "	No. 12 Flat & Oval Counter-sunk Heads. No. 14 & $\frac{1}{4}$ " All Heads.

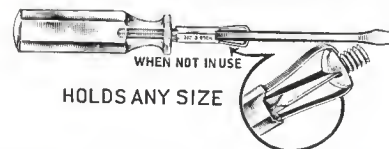
Adjusting



This short, sturdy screw driver is invaluable for work in confined spaces and on overhead tappet adjustments. The blade is formed from alloy steel and carefully heat treated.

No.	Length of Blade	Width of Tip	Overall Length
S 01	$1\frac{3}{4}$ "	$\frac{1}{4}$ "	$3\frac{3}{4}$ "
S 02	1"	$\frac{7}{32}$ "	$2\frac{3}{4}$ "

Hold-E-Zee Screw Drivers



WHEN NOT IN USE
HOLDS ANY SIZE

Hold-E-Zee Screw Drivers will hold screws firmly, and will save much valuable time. Handles are of tough composition, with blades carefully heat treated.

No.	Blade Size	Overall Length
R 2	$\frac{5}{32}$ " x 2"	$4\frac{3}{4}$ "
R 3	$\frac{5}{32}$ " x 3"	$5\frac{3}{4}$ "
TR 4	$\frac{5}{32}$ " x 4"	$7\frac{1}{4}$ "
TR 6	$\frac{5}{32}$ " x 6"	$9\frac{5}{8}$ "
TR 8	$\frac{5}{32}$ " x 8"	$11\frac{5}{8}$ "
TR 10	$\frac{5}{32}$ " x 10"	$13\frac{5}{8}$ "
TC 2	$\frac{7}{32}$ " x $1\frac{3}{4}$ "	$4\frac{1}{4}$ "
TS 4	$\frac{7}{32}$ " x 4"	$8\frac{1}{4}$ "
TH 6	$\frac{5}{16}$ " x 6"	$9\frac{3}{4}$ "
TS 7	$\frac{7}{32}$ " x 7"	$11\frac{1}{4}$ "
TH 8	$\frac{5}{16}$ " x 8"	$12\frac{7}{8}$ "

Hold-E-Zee D 17 Merchandiser

This popular attractive Display Stand is an ideal counter type merchandiser. It was created as an aid to dealer sales and contains the following fast selling Hold-E-Zee screw drivers.

Front Panel — 1 each R 2, TR 4, TR 6, TR 8, TS 4, TS 7 and TH 6. Back Panel stock consists of ten screw drivers — two each of R 2, TR 4, TR 6, TS 4 and TS 7.

Hold-E-Zee for Recessed Head Screws Phillips and Reed and Prince Type

The two diameters take care of nearly all the size range. PR type (Pt. No. 1 plus), up to No. 8 screw. PS type (Pt. No. 2 plus), No. 6 up to No. 16 screw.

No.	Hex. Dia.	Blade	Overall
PR 2	$\frac{5}{32}$ "	2"	$4\frac{5}{8}$ "
PR 4	$\frac{5}{32}$ "	4"	$7\frac{1}{4}$ "
PR 6	$\frac{5}{32}$ "	6"	$9\frac{1}{2}$ "
PS 2 (Stubby)	$\frac{7}{32}$ "	2"	$4\frac{1}{2}$ "
PS 4	$\frac{7}{32}$ "	4"	8"
PS 7	$\frac{7}{32}$ "	7"	11"

GRAY-BONNEY

Structural Wrenches

Drop-Forged Carbon Steel Structural Wrenches (Straight Opening)

Hardened All Over . . . Shot Blast Finish

The long narrow jaws milled in these balanced wrenches assure full bearing on square nuts. The long round tapered end handles allow easy insertion when aligning bolt holes. Abrupt offset and angle give clearance for obstructions and safety to operators' hands.

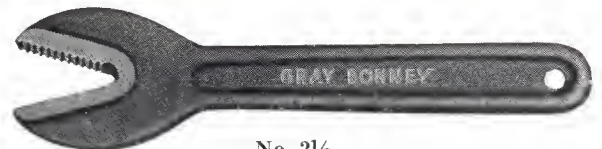
Wrench No.	Wrench Opening	American Standard						U.S. Standard Bolts and Nuts	Overall Length Inch Approx.	Thickness of Head Inch	Handle Offset Inch		Weight Lbs. Approx.
		Regular Series		Heavy Series	Light Series	Cap Screws	Set Screws				At Head	At End	
901A	7/16	.....	1/4	.....	1/4	1/4	7/16	.....	9 1/2	11 3/32	9 1/16	11 1/2	.32
901	1/2	5/16	.....	1/4	5/16	5/16	1/2	1/4	9 1/2	11 3/32	1 1/2	11 1/2a	.32
901B	9/16	3/8	5/16	.....	3/8	3/8	9/16	.....	9 1/2	11 3/32	9 1/16	11 1/2	.32
902	19/32	.....	.....	5/16	.....	.....	.....	5/16	9 1/2	11 3/32	9 1/16	11 1/2	.32
903A	5/8	7/16	3/8	.....	7/16	7/16	5/8	.....	12	7 1/16	3/4	11 1/16	.63
903	11/16	.....	.....	3/8	.....	.....	.....	3/8	12	7 1/16	3/4	11 1/16	.63
904A	3/4	1/2	7 1/16	.....	1/2	1/2	3/4	.....	12	7 1/16	3/4	11 1/16	.63
904	25/32	.....	.....	7/16	.....	.....	.....	7/16	12	7 1/16	3/4	11 1/16	.63
905A	13/16	.....	1/2	.....	.....	9/16	.....	.....	14 1/2	17/32	7/8	17/8	1.2
905	7/8	9/16	9/16	1/2	9/16	5/8	7/8	1/2	14 1/2	17/32	7/8	17/8	1.2
906	31/32	.....	.....	.....	.....	.....	.....	9 7/16	14 1/2	17/32	7/8	17/8	1.2
906B	1	.....	5/8	.....	.....	3/4	1	.....	14 1/2	17/32	7/8	17/8	1.2
907	11/16	.....	.....	5/8	3/4	.....	.....	5/8	17	5/8	1	23/8	1.9
907A	11/8	3/4	3/4	.....	.....	7/8	11/8	.....	17	5/8	1	23/8	1.9
908	1 1/4	.....	.....	3/4	7/8	.....	1 1/4	3/4	19	11/16	11/8	23/4	2.8
908A	1 5/16	7/8	7/8	.....	.....	1	.....	.....	19	11/16	11/8	23/4	2.8
909	1 7/16	.....	.....	7/8	1	.....	.....	7/8	21	3/4	1 1/4	31/16	4.1
909A	1 1/2	1	1	.....	.....	11/8	1 1/2	.....	21	3/4	1 1/4	31/16	4.1
910	1 5/8	.....	.....	1	11/8	.....	.....	1	23	13/16	17/16	33/8	5.6
910A	1 11/16	11/8	11/8	.....	.....	11/4	.....	.....	23	13/16	17/16	33/8	5.6
911	1 13/16	.....	.....	1 1/8	1 1/4	.....	.....	1 1/8	25	7/8	15/8	311/16	7.9
911A	1 7/8	1 1/4	1 1/4	.....	.....	.....	.....	.....	25	7/8	15/8	311/16	7.9
912	2	.....	.....	1 1/4	1 3/8	.....	.....	1 1/4	25	7/8	15/8	311/16	7.9



"Bull Dog" Wrenches Molybdenum Alloy Steel



Twin



No. 2 1/2

Because of their simplicity, strength, efficiency and ease of operation, Gray-Bonney "Bull Dog" Wrenches are suitable for all-round service. Their wide range makes them most desirable for use in machine shops, repair shops and garages, and on agricultural implements, etc.

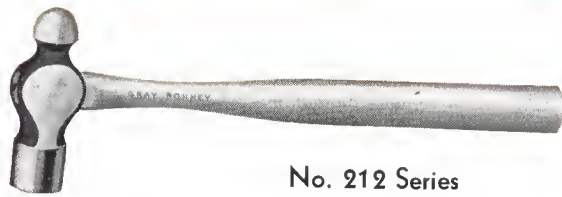
These wrenches are drop-forged. They are carefully tempered. All sizes have black enamelled finish.

No.	Capacity		Extreme Length	Weight Per Doz. Lbs.
	Pipe	Rounds		
2-1/2 Twin	3/8 to 1 1/8 to 3/4	5/8 to 1-1/4 5/16 to 1	12-1/2 10	16.5 13.5

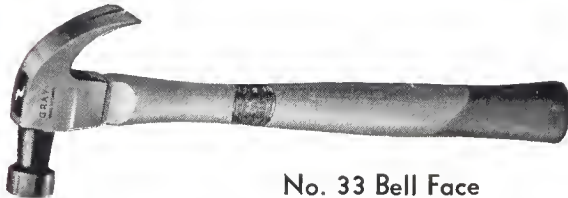
A Tool For Every Need



Hammers and Body and Fender Tools



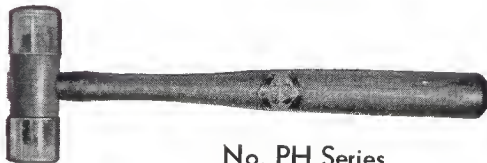
No. 212 Series



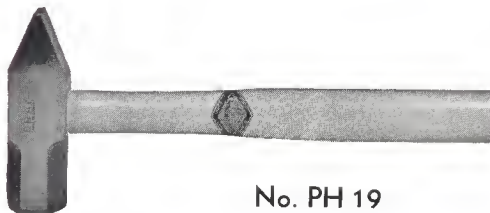
No. 33 Bell Face



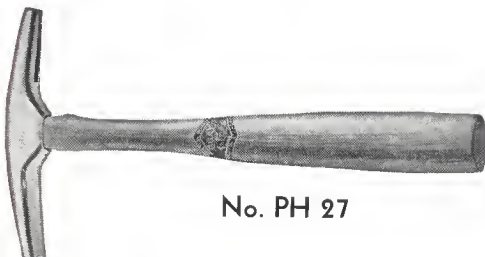
No. PH 5 M



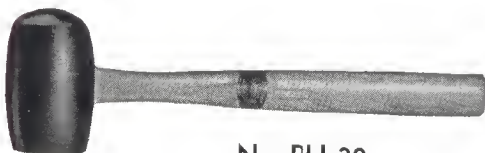
No. PH Series



No. PH 19



No. PH 27



No. PH 30

No. 212 Series — Ball Pein Hammers

Gray-Bonney No. 212 Series Ball Pein Hammers are drop forged from selected steel and carefully heat treated. The handles are of straight grain hickory, securely fastened in the head with special iron S wedge. The No. 212 Series have head, pein and sides polished, with the balance finished in black enamel.

No.	Weight	No.	Weight	No.	Weight
212	3 lbs.	212 E	1½ lbs.	212 I	8 oz.
212 A	2½ lbs.	212 G	1 lb.	212 J	6 oz.
212 C	2 lbs.	212 H	¾ lb.	212 K	4 oz.

No. 33 Garden City Brand Hammer

"Garden City" brand nail hammers enjoy very popular acceptance. The heads and claws are carefully hardened and full polished except front and back of throat, neck and under claws which are black enamel. Single locking wedge in clear finished quality hickory handle.

No.	Face	Weight	Handle Length
33	Bell	1 lb.	13¼"

No. PH 5 M Multi-Head Hammer

This hammer is designed so that the changing of faces is a matter of seconds. The head is made of forged steel carefully machined, so that the heads are locked firmly in position. The hammer comes complete with five tips: Pyralin, copper, lead, rubber and composition.

No. PH 5 M—Complete with tips. No. PHR—Extra Rubber tip.
No. PHP—Extra Pyralin tip. No. PHL—Extra Lead tip.
No. PHB—Extra Composition tip. No. PHC—Extra Copper tip.

PH Series — Soft Face Hammers

Gray-Bonney Soft Face Hammers are useful for fitting piston pins and similar jobs, and for body and fender work. The tips are of a tough, amber-colored composition material that will not mar a finely finished surface. New tip may be attached by turning the old one loose with a pipe wrench and pressing on the new tip. The hammer is properly balanced and the hickory handle is securely locked in the head. ●Tips not guaranteed.

No.	Weight
*PH 18	¼ lb.
PH 15	½ lb.
PH 20	1 lb.

*Supersedes PH 17.

Extra tips are available for all PH Series hammers. To order, specify hammer number for tip required.

No. PH 19 Tire and Rim Hammer

Drop forged from high grade steel and carefully heat treated. This tire and rim hammer is specially designed for all types of work where such a tool is needed. Head fully polished with hickory handle. Weight, 3 lbs. Length overall, 16".

No. PH 27 Upholsterers' Magnetic Hammer

Head is polished all over and one end is magnetized. Head is 5½" long. Overall length, 12". Weight, 7 oz.

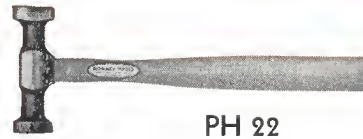
No. PH 30 Fender Mallet

Has rubber composition head which excels hickory for durability. It will not shatter, chip or split. Equipped with hickory handle. Head 2½" diameter, 4½" long. Handle 11½" long. Weight 1¾ lbs.

GRAY-BONNEY Body Tools

No. PH 22 Bumping Hammer

This hammer has polished faces and black body. Head $4\frac{1}{4}$ " long. Round face, $1\frac{1}{4}$ " in diameter. Square face, $1\frac{1}{4}$ " square. Overall length, 12". Weight, 14 ozs.



PH 22

No. PH 23 Light Bumping Hammer

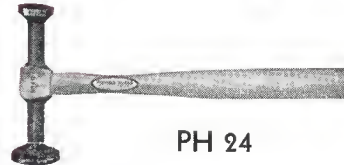
A light weight finishing hammer with head having polished faces and black body. Head, 4" long. Round face, $1\frac{1}{4}$ " in diameter. Square face, $1\frac{1}{8}$ " square. Overall length, $11\frac{1}{2}$ ". Weight, 9 ozs.



PH 23

No. PH 24 Dinging Hammer

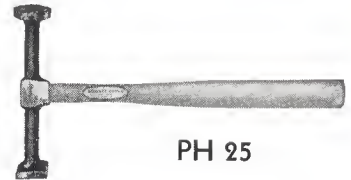
A finishing hammer with faces crowned and polished; body of head finished in black. Head 6" long. Large face, $1\frac{5}{8}$ " in diameter. Small face, $1\frac{1}{4}$ " in diameter. Overall length, 12". Weight, 13 ozs.



PH 24

No. PH 25 Light Dinging Hammer

A sturdily made, light weight finishing hammer. Head $6\frac{1}{2}$ " long. Large face, $1\frac{1}{4}$ " square. Small face, $1\frac{1}{16}$ " in diameter. Overall length, $11\frac{1}{2}$ ". Weight, 10 ozs.



PH 25

No. PH 26 Special Bumping Hammer

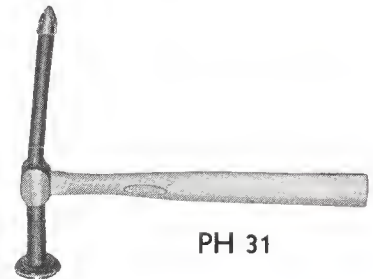
The head is drop forged with bullet shaped end which makes it easy to remove small dents. Face of the head is polished with body finished in black. Strong hickory handle. Head, 4" long. Weight, 7 ozs.



PH 26

No. PH 31 Long Pick Hammer

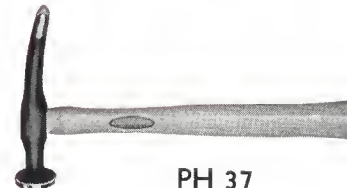
Made with a long-reach pein for driving up small dents. Face is polished, body finished in black. Head $9\frac{1}{2}$ ", face $1\frac{5}{8}$ " in diameter. Overall length, 12" Head weight 15 ozs.



PH 31

No. PH 37 Cross Pein Hammer

A sturdy cross pein head with the peining end designed especially for fender beads and corners. Face $1\frac{7}{16}$ " in diameter. Overall length, 11". Head weight 11 ozs.



PH 37

No. F 2 Regular or Toe Dolly Block

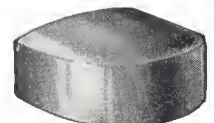
Drop forged of selected steel and full surface ground and polished. Length, $4\frac{3}{4}$ ". Width, $2\frac{1}{4}$ ". Thickness, $1\frac{1}{16}$ ". Weight $2\frac{1}{2}$ lbs.



F 2

No. F 3 Heel Dolly Block

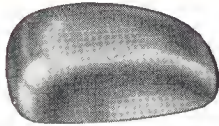
Drop forged of steel most suitable for this type of tool. Full surface ground and polished. Length, $2\frac{1}{2}$ ". Width, $3\frac{1}{8}$ ". Thickness, $1\frac{1}{2}$ ". Weight, $2\frac{1}{4}$ lbs.



F 3

GRAY-BONNEY Body Tools

Bar Dolly



No. F 4 — Drop forged steel and full surface ground and polished. Length, $4\frac{1}{4}$ ". Width, 2". Thickness, $1\frac{1}{2}$ ". Weight, 3 lbs.

General Purpose Dolly Block



No. F 6 — Full surface ground and polished. Weight, 3 lbs. Drop forged steel.

Small Hand Dolly Block



No. F 10 — Working surfaces are ground and polished. Weight, $2\frac{1}{4}$ lbs.

Panel Spoon



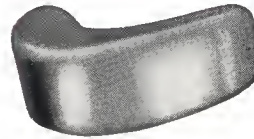
No. F 16 — Used in general body repair work and on turret tops. Forged of selected steel with polished working surfaces. Blade $2\frac{1}{4}$ " wide, $6\frac{1}{4}$ " long. Overall length, $11\frac{1}{4}$ ". Weight, 22 ozs.

Wide Body Spoon



No. F 15 — Blade ground and polished. Dimensions of blade: $2\frac{1}{16}$ " wide, 5" long. Overall length, $10\frac{1}{2}$ ". Weight, 1 lb.

Wedge Dolly Block



No. F 5 — Especially designed for work on turret tops. Drop forged of selected steel, with working surfaces highly polished. Length, 5". Width, $2\frac{1}{2}$ ". Weight, $2\frac{1}{2}$ lbs.

Budd Dolly Block



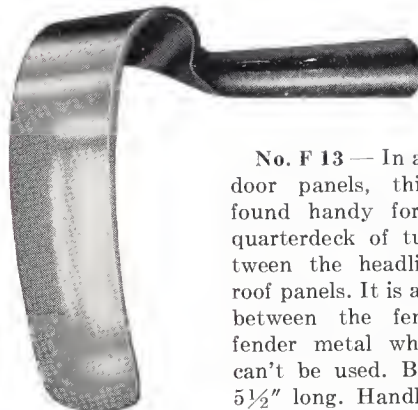
No. F 7 — Drop forged of selected steel. Full surface ground and polished. Its curved surfaces are designed so that it will take care of any repair on a Budd body. Each block is carefully gauged after it is polished to insure correct radii of the curves. Weight, 3 lbs.

Large Hand Hold Dolly



No. F 12 — Working surfaces are ground and polished. Weight, $3\frac{1}{2}$ lbs.

Special Door Panel Spoon



No. F 13 — In addition to work on door panels, this spoon will be found handy for working on the quarterdeck of turret tops and between the headlining strainer and roof panels. It is also handy for work between the fender bracket and fender metal where a dolly block can't be used. Blade is $2\frac{1}{4}$ " wide, $5\frac{1}{2}$ " long. Handle is $\frac{7}{8}$ " diameter. Weight, 23 ozs.

GRAY-BONNEY Body Tools

Flat File Holder



No. F 24 — An inexpensive wooden file holder for the 14" body file.

Flexible Body File

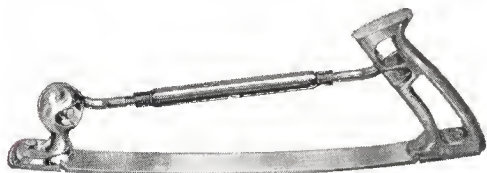


No. F 25 — The application of the milling cutter principle to body files has produced a file that will last longer and do better work. Each tooth is individually milled, and the U shaped groove provides maximum clearance allowing the ribbon like shavings to be cleared quickly and easily. The elimination of packing and loading is a feature of this new file, and the teeth will maintain their razor like sharpness several times as long as the old V tooth file. Overall length, 14".

File and Holder Set

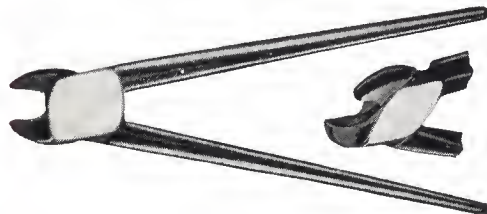
No. F 26 — For the shop using the F 25 14" file, this combination will prove to be excellent value. Six general purpose 14" files and a No. F 24 Holder for the ordinary cost of the files.

Adjustable File Holder



No. F 31 — Can be used on 12" and 14" files. This holder is strongly made, yet is light and handy. Can be adjusted for curving the file either outward or inward.

Body Trimmers' Pliers



No. B 33 — This body trimmers' Hog Ring Plier is used for closing the prongs of metal lock rings used on body hardware and other installations requiring use of locking rings. Black oxidized rust resistant finish with polished head. Length 8".

For Greater Efficiency

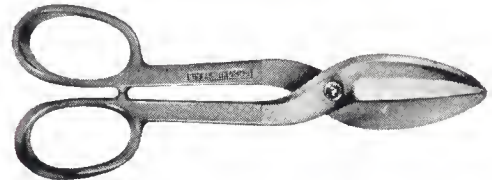
Body Snips



Compound leverage design provides strong, yet free and easy cutting power on all types of tough sheet metal including stainless steel and duralumin. The drop-forged chrome-vanadium steel jaws are serrated to provide a sure grip on the work. They are spring-actuated. The jaws are 2½" long, handles 6¾". The overall length is 9¾".

No. B 52 — Universal, for right or left cuts.

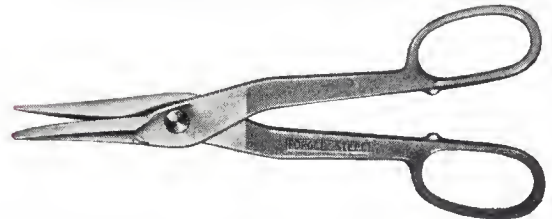
Snips: Straight Pattern



These snips are of excellent quality. They are made from a one-piece drop forging, precision ground and hand polished. The cutting edges are keen and will give long and satisfactory service.

New No.	Length	Cut
S 47	7"	2"
S 410	10"	2¾"
S 412	12"	3¼"

Snips: Combination Circle Pattern



The combination circle pattern snip is an all-purpose snip. It will cut either right or left-hand direction. This extra slim snip is ideal for garage mechanics, as well as metal workers.

77 D	7"	1⅞"
107 D	10"	2¾"
127 D	12"	3⅞"

Hand Seamers No. 535



An excellent tool for hand seaming. Overall length 8", working surfaces 1" x 3½", weight 1 lb. Drop forged from Alloy Steel. Fully heat treated



GRAY-BONNEY Body Tool Sets

FB 10 Set

Approx. Weight 38 lbs. Contains 10 Pieces

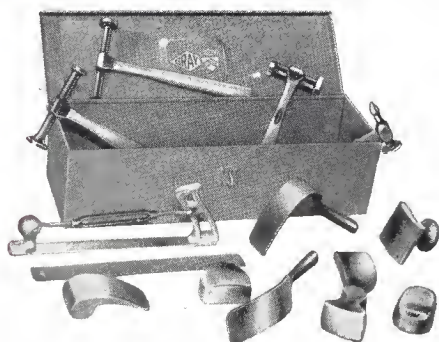


A compact set of body and fender tools suitable for taking care of the minor bumps which the average shop is called on to straighten out. Contains 10 pieces packed in an attractively finished metal case measuring 21" x 7" x 6". Box No. 19 B.

No.	Description
F 2	Regular or Toe Dolly Block
F 3	Heel Dolly Block
F 4	Bar Dolly
F 6	General Purpose Dolly Block
F 10	Small Hand Hold Dolly
F 25	Flexible Body File
F 31	Adjustable File Holder
PH 22	Bumping Hammer
PH 24	Dinging Hammer
PH 26	Special Bumping Hammer

FB 14 Set

Approx. Weight 45 lbs. Contains 14 Pieces



Contains 14 essential pieces for body and fender repair work. Packed in a strong, attractively finished metal box with removable tray, padlock hasp and carrying handle. The box is sufficiently large to take care of tools you may have on hand or wish to add later. It measures 21" x 7" x 6". Box No. 19 B.

No.	Description
F 2	Regular or Toe Dolly Block
F 3	Heel Dolly Block
F 4	Bar Dolly
F 5	Wedge Dolly Block
F 6	General Purpose Dolly Block
F 12	Large Hand Hold Dolly
F 13	Special Door Panel Spoon
F 16	Panel Spoon
F 25	Flexible Body File
F 31	Adjustable File Holder
PH 22	Bumping Hammer
PH 24	Dinging Hammer
PH 25	Light Dinging Hammer
PH 26	Special Bumping Hammer

FB 19 Set

Contains 19 Pieces

Approx. Weight 54 lbs.



A complete set of fender hammers, dollies, spoons, file, etc., for the specialist in body and fender repair work. Each tool has been carefully selected so that any job can be done with speed and thoroughness. Packed in attractive metal chest with tote tray and strong padlock hasp. Chest size, 21" x 7 1/2" x 8 1/8". Box No. 20 B.

No.	Description
F 2	Regular or Toe Dolly Block
F 3	Heel Dolly Block
F 4	Bar Dolly
F 5	Wedge Dolly Block
F 6	General Purpose Dolly Block
F 7	Budd Dolly Block
F 10	Small Hand Hold Dolly
F 12	Large Hand Hold Dolly
F 13	Special Door Panel Spoon
F 15	Wide Body Spoon
F 16	Panel Spoon
F 25	Flexible Body File
F 31	Adjustable File Holder
PH 22	Bumping Hammer
PH 23	Light Bumping Hammer
PH 24	Dinging Hammer
PH 25	Light Dinging Hammer
PH 26	Special Bumping Hammer
PH 27	Upholsterers' Magnetic Hammer

Saws and Wheel Puller

No. 2627 Adjustable Tension Hack Saw Frame



With 6" x 1/4" hack saw blade. Fits in close places. Handy for electricians, plumbers, and mechanics. Indispensable for home mechanics. Extra blades No. 2627 B available.

No. 2682 Tubular Adjustable Hack Saw Frame



A strong, well-built tubular hack saw, with comfortable steel handle and thumb rest. Adjustable from 8" to 12". Full nickel finish. Complete with blade. Individually packed.

High Speed Steel Hack Saw Blades

These HIGH SPEED blades are made from the finest steel obtainable, and will give the utmost in service under the most exacting conditions. Due to careful heat-treating they are extremely flexible, thus ensuring long life and protection against breakage.

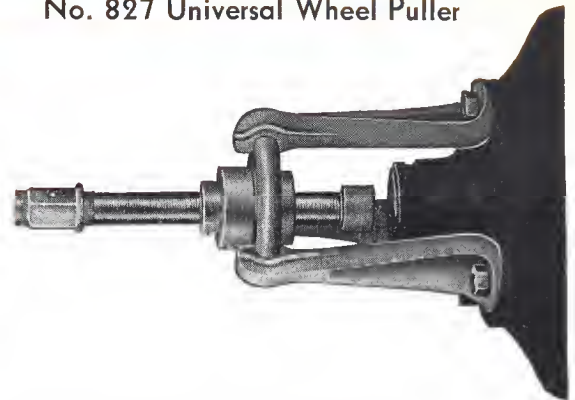
No.	Width	Length	Gauge	Teeth per inch
HS 1018	9/16"	10"	.025	18
HS 1024	9/16"	10"	.025	24
HS 1032	9/16"	10"	.025	32
HS 1218	9/16"	12"	.025	18
HS 1224	9/16"	12"	.025	24
HS 1232	9/16"	12"	.025	32

Tungsten Alloy Steel Hack Saw Blades

An excellent alloy steel blade that will give good service under all conditions.

No.	Width	Length	Gauge	Teeth per inch
TA 1018	1/2"	10"	.025	18
TA 1024	1/2"	10"	.025	24
TA 1032	1/2"	10"	.025	32
TA 1218	1/2"	12"	.025	18
TA 1224	1/2"	12"	.025	24
TA 1232	1/2"	12"	.025	32

No. 827 Universal Wheel Puller



The best, simplest, and sturdiest wheel puller ever developed. Has tremendous power, yet cannot bend or otherwise damage the wheel lugs.

With the three regular legs, shown above, it works perfectly on over 98% of all makes of cars.

The screw has very fine threads, which give it an extremely powerful leverage. In addition, the puller is equipped with a sliding bearing through which the driving screw rides. This feature makes it possible for the operator to attach the puller to the studs, then draw the screw tightly against the axle and with a light blow of a hammer, remove the most stubborn hub. Extends to include 8 inch bolt circle.

Another feature is the floating cap on the screw end. This centers on the axle, avoiding injury to either axle or puller.

The driving end is forged with a hexagon head which firmly holds the driving handle. The handle driving bar can be eliminated if it is desired to turn the screw up with an ordinary socket or open end wrench.

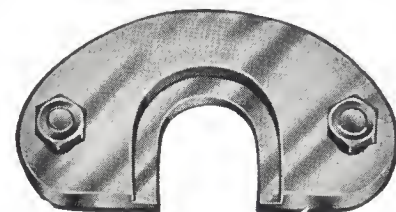
No. 827 L — Extra Leg for Above

No. 827 H Handle



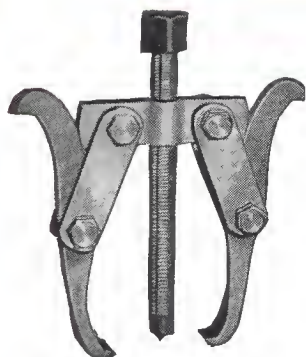
Designed especially for No. 827 Wheel Puller. Drop forged and heat treated.

No. 827 V Wheel Puller Adaptor



This adaptor will work on all Ford V-8 hubs from 1936 to date. Engage two of the puller arms in the bolts and slide the adaptor over the hub groove. Apply pressure by means of the pressure screw, and a straight steady pull will result.

Pullers



Nos. 1001-2-3

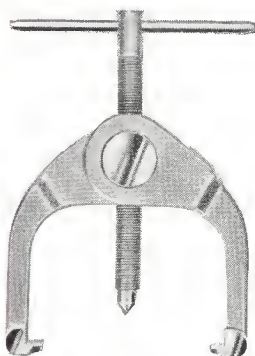
Nos. 1001-2-3 Gear Pullers

These improved Gear Pullers with special gripping features, will remove most types of gears, pinions, etc. The double end jaws are thin and shaped so that slipping is impossible. Light in weight, yet strong enough for the toughest job.

No. 1001 with $\frac{1}{2}$ " screw 6" long, is ideal for small work. Maximum reach is $3\frac{1}{2}$ "; maximum spread is 6".

No. 1002 is "an all purpose" tool which will handle a wide range of work. Screw is 9" long by $\frac{5}{8}$ " diameter. Maximum reach is $5\frac{1}{2}$ "; maximum spread is 8".

No. 1003 is a H. D. Puller with $\frac{13}{16}$ " diameter, 12" long screw. Maximum reach is 9"; maximum spread is 12".



No. P 305

No. P 305 Two-Arm Gear Puller

This two-arm Puller has a wide range of applications in the service shop.

It is especially useful to the refrigeration service man for pulling operations encountered in refrigeration maintenance.

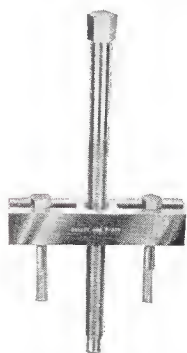
This tool will also service a great number of applications found in the automotive and aircraft service industries.

The unique feature of this puller is the simplicity of construction. Parts are identified as follows:

P 305-1 Outer Arm
P 305-2 Inner Arm

P 305-3 Forcing Screw
P 305-5 Pivot Pin

Maximum reach is $2\frac{3}{8}$ inches in depth.
Maximum spread is $3\frac{1}{2}$ inches.



No. P 309

No. P 309 Timing Gear Puller

This is a general purpose puller for removing timing gears, fan assemblies, vibration dampeners and other parts which are tapped to receive cap screws $\frac{3}{8}$ inch in diameter or less.

This Puller is especially useful for pulling Chevrolet vibration dampeners without removing the radiator.

Parts for the **No. P 309** Puller are identified as follows:

P 309-1 Center Block, $5\frac{1}{2}$ " long.
P 309-2 Forcing Screw, $11\frac{1}{2}$ " long.
P 309-3 Cap Screws (2), $\frac{3}{8}$ "—16 threads per inch, $3\frac{1}{2}$ " long.

No. PO 12 L Convertible Puller

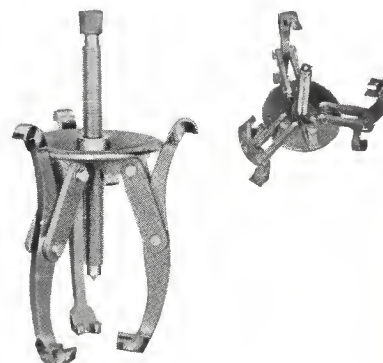
This Puller is exactly the same as the PO 12, except for the fact that it is furnished with the longer, adjustable arms **No. PO 12 L-5** in place of the shorter arms.

These longer arms have a maximum reach of $8\frac{1}{2}$ inches in depth and 0 to 10 inches in spread.

No. PO 12 L is provided for those cases in which the longer arms are required at the time of the original purchase of the Puller. It can also be adapted later by securing the extra arms **No. PO 12-5**, used in the PO 12 assembly.



Arms for PO 12 L Assembly
No. PO 12 L-5



PO 12 L
Assembled as
3-Arm Puller

Pullers

No. PO 11 Convertible Gear Puller

This is the small size in the new line of Gray-Bonney Convertible Pullers. The design of these sturdy Pullers is such that a quick changeover will convert to a 2-arm or 3-arm puller as desired.

The upper assembly pins, with ball-detent locking, are quickly snapped from the links and are as readily replaced in the desired set-up, overcoming the necessity of using wrenches to disassemble and reassemble as in the case of bolted assemblies. This one model, PO 11, can be used to replace two separate pullers.

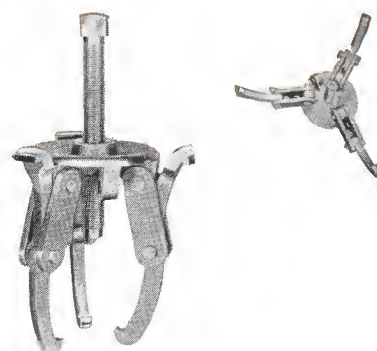
The individual parts are made of carefully selected alloys, treated as required to make this a balanced, strong and handy tool. A shear pin is provided to guard against jaw breakage.

The reversible arms (No. PO 11-5) in this assembly, have a maximum reach of $3\frac{1}{2}$ inches in depth and 0 to 6 inches in spread.

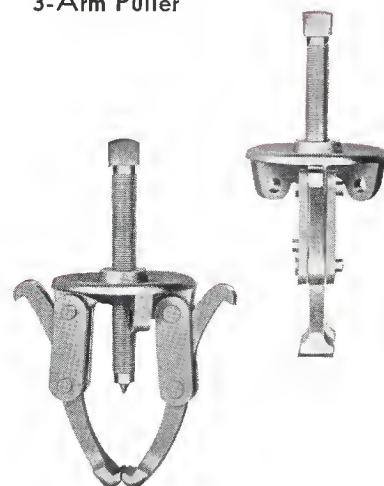
For identification, component parts have been assigned the following numbers:

PO 11-1.....Hub	PO 11-4.....Pin
PO 11-2.....Screw	PO 11-5.....Arm ($3\frac{1}{2}$ " reach)
PO 11-3.....Link	PO 11-6.....Shear Pin

Since all parts are interchangeable, this puller can be converted further into a PO 11 L (below) by securing a set of extra arms, No. PO 11 L-5, as illustrated.



PO 11
Assembled as
3-Arm Puller



PO 11
Assembled as
2-Arm Puller

No. PO 11 L Convertible Puller

This puller is exactly the same as the above, except for the fact that it is furnished with the longer, adjustable arms No. PO 11 L-5 in place of the shorter arms.

These longer arms have a maximum reach of $5\frac{1}{2}$ inches in depth and 0 to 8 inches in spread. No. PO 11 L is provided for those cases in which the longer arms are required at the time of the original purchase of the Puller. It can also be adapted later by securing the extra arms No. PO 11-5, used in the PO 11 assembly above.

No. PO 12 Convertible Gear Puller

The PO 12 is a rugged Puller, designed to handle the majority of pulling operations encountered in the automotive service shop.

This Puller is made in the same general design as the smaller PO 11, converting to a 2-arm or 3-arm assembly to meet the requirements of the job. It features the ball-detent locking pin linkage for quick changeover. A shear pin protects jaws.

Another feature of this Puller is the slotted jaw on one end of the reversible arms, to be used for pulling gears which necessitate the use of cap screws in their removal. This feature adds greatly to the versatility of the tool. The reversible arms (No. PO 12-5) in this assembly, have a maximum reach of $5\frac{1}{2}$ inches in depth and 0 to 8 inches in spread.

Parts are interchangeable with No. PO 12 L (pg. 64) so that this Puller may be further converted by securing a set of extra arms, No. PO 12 L-5, as illustrated. Parts are identified by the following numbers:

PO 12-1.....Hub	PO 12-4.....Pin
PO 12-2.....Screw	PO 12-5.....Arm ($5\frac{1}{2}$ " reach)
PO 12-3.....Link	PO 11-6.....Shear Pin

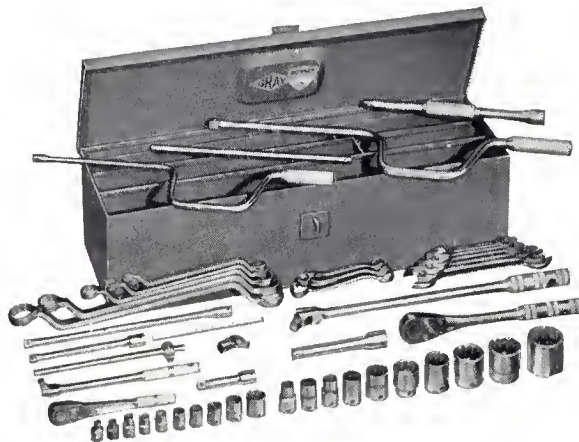


Arms for PO 11 L Assembly
No. PO 11 L-5

GRAY-BONNEY British Size Socket Set

Gray-Bonney Engineers' Wrenches, Sockets and Box Wrenches are available with B.S.F. and Whitworth size openings. The increasing use of cars, trucks, motorcycles and other mechanical devices of British origin make tools of this type a necessity. All are processed from the finest Chrome-Vanadium alloy steel, designed and finished to assure maximum user satisfaction.

WB 49 Combination Set "BRITISH SIZES"



49 Pieces

- 20 Double Hexagon Sockets
- 15 Handles and attachments
- 8 Box Wrenches
- 6 Engineers' Wrenches

This WB 49 Set has been created to meet the requirements of mechanics responsible for the maintenance of cars, trucks and other mechanical equipment built to British specifications. It is a general purpose set, contained in a metal chest measuring 21" x 7" x 6". Supplied complete with tote tray. Box No. 19 B.

Contains the following 49 Pieces

BS Series and BSF Series have the Same Bolt Head and Nut Dimensions

3/8" Square Sockets and Handles				3/8" Square Drive Handles and Attachments as follows			
Socket No.	Fractional Openings of Sockets across flats	BSW and BA	BS or BSF	Socket No.	Fractional Openings of Sockets across flats	BSW	BS or BSF
MW1	1/4"	4 BA	X	W155	29/64"	3/16"	1/4"
MW2	9/32"	3 BA	X	W156	17/32"	1/4"	5/16"
MW3	21/64"	2 BA	X	W157	39/64"	5/16"	3/8"
MW4	11/32"	1 1/8 BSW	3/16"	W158	23/32"	3/8"	7/16"
MW5	23/64"	1 BA	X	W159	53/64"	7/16"	1/2"
MW6	13/32"	OBA	X	W160	59/64"	1/2"	9/16"
MW7	29/64"	3/16 BSW	1/4"	W161	1 1/64"	9/16"	5/8"
MW8	17/32"	1/4 BSW	5/16"	W162	1 7/64"	5/8"	11/16"
MW9	39/64"	5/16 BSW	3/8"	W163	1 13/64"	11/16"	3/4"
MW10	23/32"	3/8 BSW	7/16"	W164	1 19/64"	3/4"	7/8"

No.	
T 3	Universal Joint
T 36	Sliding T Handle
T 5	11" Extension
T 4	6" "
T 31	3" "
T 9	Speed Handle—length 19"
T 30	10" Flex Handle
T 32	Crass Bar
T 57	Reversible Ratchet

Also Included

Engineers' Wrenches — Set of six wrenches as contained in WB 6 on page 69.

Long Box Wrenches — Double Offset — Set of five wrenches as contained in WB 95 Set on page 69.

Short Box Wrenches — Double Offset — Set of three wrenches, W 176, W 177, W 178, as shown on page 69.

No. WB 49 Set containing 49 pieces comes complete in steel chest as illustrated. Chest measures 21" x 7" x 6".

X There is no equivalent in this series.



GRAY-BONNEY British Size Socket Sets

Gray-Bonney Sockets, Handles and Attachments used in British size sets are of the same high quality so characteristic of the entire Gray-Bonney line. The sockets are of the thin wall type and are forged from the finest Chrome-Vanadium steel. All pieces are finished in lustrous chrome.

WB 12 British Size Socket Set 1/2" Sq. Drive



This Spinner Set includes all sockets as contained in Set No. WB 16 illustrated below. It also contains a 15" flexible handle No. 653 and Cross Bar No. 655.

WB 16 British Size Socket Set 1/2" Sq. Drive



The sockets and handles in this set are all 1/2" square drive. The sockets are of the straight thin wall type, and range in size from 29/64 to 1 19/64" nominal openings.

This set in steel box (as illustrated) contains all the sockets and attachments listed below. Box No. TG 20 B.

Socket Na.	Fractional Openings of Sockets across flats	BSW	BS or BSF
W155	29/64"	3/16"	1/4"
W156	17/32"	1/4"	5/16"
W157	39/64"	5/16"	3/8"
W158	23/32"	3/8"	7/16"
W159	53/64"	7/16"	1/2"
W160	59/64"	1/2"	9/16"
W161	1 1/64"	9/16"	5/8"
W162	1 7/64"	5/8"	11/16"
W163	1 13/64"	11/16"	3/4"
W164	1 19/64"	3/4"	7/8"

Na.	
653	15" Flex Handle
655	Cross Bar
686	19" Speeder
718	5" Extension
719	10" Extension
5297	Reversible Ratchet

X There is no equivalent in this series.

WB 312 British Size Socket Set 3/8" Sq. Drive



This handy little set contains all the sockets in the WB 19 set illustrated below, together with the T 30 flex handle and T 32 cross bar. In steel box as illustrated.

WB 19 British Size Socket Set 3/8" Sq. Drive



The sockets are extra thin with straight walls, and all handles are extremely light and easy to handle. The reversible ratchet with this set is of the highest quality. In steel box as illustrated. Box No. TG 20 B.

The following sockets and handles are included:

Socket Na.	Fractional Openings of Sockets across flats	BSW and BA	BS or BSF
MW1	1/4"	4 BA	X
MW2	9/32"	3 BA	X
MW3	21/64"	2 BA	X
MW4	11/32"	1 1/8 BSW	3/16"
MW5	23/64"	1 BA	X
MW6	13/32"	OBA	X
MW7	29/64"	3/16 BSW	1/4"
MW8	17/32"	1/4 BSW	5/16"
MW9	39/64"	5/16 BSW	3/8"
MW10	23/32"	3/8 BSW	7/16"

T 3	Universal Joint
T 36	Sliding T Handle
T 5	11" Extension
T 4	6" "
T 31	3" "
T 9	Speed Handle
T 30	10" Flex Handle
T 32	Cross Bar
T 57	Reversible Ratchet

Sets Are Best



British Size Sockets and Combination Wrenches

3/8" Sq. Drive

Double Hexagon Type Sockets

No.	Fractional Openings of Sockets across Flats	BSW and BA	BS or BSF
MW1	1/4"	4 BA	X
MW2	9/32"	3 BA	X
MW3	21/64"	2 BA	X
MW4	11/32"	1/8 BSW	3/16"
MW5	23/64"	1 BA	X
MW6	13/32"	OBA	X
MW7	29/64"	3/16 BSW	1/4"
MW8	17/32"	1/4 BSW	5/16"
MW9	39/64"	5/16 BSW	3/8"
MW10	23/32"	3/8 BSW	7/16"

1/2" Sq. Drive

Double Hexagon Type Sockets

W155	29/64"	3/16"	1/4"
W156	17/32"	1/4"	5/16"
W157	39/64"	5/16"	3/8"
W158	23/32"	3/8"	7/16"
W159	53/64"	7/16"	1/2"
W160	59/64"	1/2"	9/16"
W161	1 1/64"	9/16"	5/8"
W162	1 7/64"	5/8"	11/16"
W163	1 13/64"	11/16"	3/4"
W164	1 19/64"	3/4"	7/8"



TWB Set

A handy 9/32" Square Drive series set for use on small British nuts. Ideal for work on English electrical equipment. Made from Chrome-Vanadium Alloy Steel with Nickel Chrome Finish.

No.	(Contents TWB Set)	Opening
TW 7B	S.H. Socket	7 BA
TW 6B	"	6 BA
TW 5B	"	5 BA
TW 4B	"	4 BA
TW 3B	"	3 BA
TW 2B	"	2 BA
TW 1B	"	1 BA
TW 18B	"	1/8 BSW
TW OB	"	O BA
TW 16B	6" Extension	
TW 17B	Sliding "T" Handle	
4219	Adaptor 9/32 Male to 3/8 Female	

TW 16 S 4" Extension. TW 16 L 8" Extension (Not included in set), but are available.

X There is no equivalent in this series.

1/4" Sq. Drive

Double Hexagon Type Sockets

No.	Fractional Openings of Sockets across Flats	BSW	BS or BSF
W153	29/64"	3/16"	1/4"

1/2" Sq. Drive

Extra Deep Double Hexagon Type Sockets

No.	Fractional Openings of Sockets across Flats	BSW	BS or BSF
WL154	11/32"	1/8"	3/16"
WL155	29/64"	3/16"	1/4"
WL156	17/32"	1/4"	5/16"
WL157	39/64"	5/16"	3/8"
WL159	53/64"	7/16"	1/2"
WL160	59/64"	1/2"	9/16"
WL161	1 1/64"	9/16"	5/8"
WL162	1 7/64"	5/8"	11/16"

Above sockets 3 1/4" overall in length.

3/4" Sq. Drive

Double Hexagon Type Sockets

WH160	59/64"	1/2"	9/16"
WH161	1 1/64"	9/16"	5/8"
WH162	1 7/64"	5/8"	11/16"
WH163	1 13/64"	11/16"	3/4"
WH164	1 19/64"	3/4"	7/8"
WH165	1 25/64"	13/16"	15/16"
WH166	1 31/64"	7/8"	1
WH167	1 19/32"	15/16"	X
WH168	1 43/64"	1	1 1/8"
WH169	1 7/8"	1 1/8"	1 1/4"
WH170	2 1/16"	1 1/4"	1 3/8"

New Series Combination Wrenches

A new series of Combination Wrenches providing the six most popular British openings. Drop-forged from Molybdenum Alloy Steel with polished ends and full Nickel Chrome Finish.

No.	BS or BSF	BA & BSW	Length
W30	7/32"	OBA	5"
W31	1/4"	3/16 BSW	5 3/8"
W32	5/16"	1/4 BSW	6"
W33	3/8"	5/16 BSW	6 3/4"
W34	7/16"	3/8 BSW	8 3/8"
W35	1/2"	7/16 BSW	10 3/8"

No.	Description
W 40 C	5 pc. set (W 30 to W 34 inc.) in Clip
W 40 LR	5 pc. set (W 30 to W 34 inc.) in L. Roll
W 41 C	5 pc. set (W 31 to W 35 inc.) in Clip
W 41 LR	5 pc. set (W 31 to W 35 inc.) in L. Roll
W 42 C	6 pc. set (W 30 to W 35 inc.) in Clip
W 42 LR	6 pc. set (W 30 to W 35 inc.) in L. Roll



British Size Wrenches

British Size Open End Wrenches



Gray-Bonney Engineers Wrenches with British openings are correctly designed and combine lightness with strength and durability. They are drop forged from Chrome-Vanadium alloy steel, carefully heat treated and chrome plated, with buffed heads.

No.	Opening of Wrench Across Flats in Camman Fractions	B.S.W. and B.A. Series	B.S.	B.S.F.	Length
W 775	11/32 & 29/64	1/8 & 3/16	3/16 & 1/4	x & 1/4	5
W 781	21/64 & 29/64	2BA & 3/16	x & 1/4	x & 1/4	5
W 774	29/64 & 17/32	3/16 & 1/4	1/4 & 5/16	1/4 & 5/16	6 1/4
W 782	17/32 & 39/64	1/4 & 5/16	5/16 & 3/8	5/16 & 3/8	7
W 776	39/64 & 23/32	5/16 & 3/8	3/8 & 7/16	3/8 & 7/16	7
W 783	23/32 & 53/64	3/8 & 7/16	7/16 & 1/2	7/16 & 1/2	8 1/2
W 784	53/64 & 59/64	7/16 & 1/2	1/2 & 9/16	1/2 & 9/16	9 3/4
W 793	59/64 & 1 1/64	1/2 & 9/16	9/16 & 5/8	9/16 & 5/8	11 3/8
W 1037S	1 1/64 & 1 13/64	9/16 & 11/16	5/8 & 3/4	5/8 & 3/4	12 1/2
W 794	1 7/64 & 1 19/64	5/8 & 3/4	11/16 & 7/8	11/16 & 7/8	12 1/2
W 795	1 1/64 & 1 7/64	9/16 & 5/8	5/8 & 11/16	5/8 & 11/16	11 3/8
W 796	1 19/64 & 1 31/64	3/4 & 7/8	7/8 & 1	7/8 & 1	14
W 798	1 31/64 & 1 19/32	7/8 & 15/16	x & 1	x & 1	15 1/2
W 797	1 31/64 & 1 143/64	7/8 & 1	1 & 1 1/8	1 & 1 1/8	15 1/2

British WB 6 LR Engineers' Wrench Set

This set includes wrenches to service most popular British sizes. Contents include W 781, W 782, W 783, W 784, W 774 and W 776. The size of milled openings may be determined by referring to chart above. Supplied in leatherette roll.

British Size Tappet Wrenches

No.	Opening of Wrench Across Flats in Camman Fractions	B.S.W.	B.S. and B.S.F.	Length
W 122	11/32 & 29/64	1/8 & 3/16	3/16 & 1/4	9 1/2
W 122A	29/64 & 17/32	3/16 & 1/4	1/4 & 5/16	9 1/2
W 124	39/64 & 23/32	5/16 & 3/8	3/8 & 7/16	9 1/2

British No. W 4 T Tappet Set

This set includes two No. W 122 and two No. W 124 wrenches complete in leatherette roll.

British Size Ignition Wrenches

The WE Series Miniature Ignition Wrenches listed below are similar to the E series wrenches on page 30. They are drop forged from alloy steel, heat treated and chrome plated with polished heads.

No.	Opening of Wrench Across Flats in Common Fractions	B.A. Series	Length
WE 01	13/32 & 23/64	0 BA & 1 BA	4
WE 10	23/64 & 13/32	1 BA & 0 BA	4
WE 23	21/64 & 9/32	2 BA & 3 BA	3 1/2
WE 32	9/32 & 21/64	3 BA & 2 BA	3 1/2
WE 45	1/4 & 7/32	4 BA & 5 BA	3
WE 54	7/32 & 1/4	5 BA & 4 BA	3
WE 67	3/16 & 11/64	6 BA & 7 BA	3
WE 76	11/64 & 3/16	7 BA & 6 BA	3

British No. WE 8 Ignition Set

The WE 8 set contains one each of all WE series ignition wrenches listed above. Supplied in a leatherette roll.

X There is no equivalent in this series.

British Size Box Wrenches Long Type



This series of Gray-Bonney Box Wrenches with British size openings should be in every tool kit. The usefulness of this type of wrench has long been appreciated by mechanics, and their ability to reach hard-to-get-at places is unequalled. The offset heads (with different opening at each end) and the cleanly broached 12 point openings make them ideal for practically every job. These wrenches are drop forged from Chrome-Vanadium alloy steel, and are light in weight, they will stand up under the most exacting conditions. They are attractively plated with polished heads and panels.

No.	Opening of Wrench Across Flats in Camman Fractions	B.S.W. and B.A. Series	B.S.	B.S.F.	Length
W 70	21/64 & 13/32	2BA & OBA	x & x	x & 7/32	8 1/2
W 71	11/32 & 29/64	1/8 & 3/16	3/16 & 1/4	3/16 & 1/4	8 1/2
W 72	17/32 & 39/64	1/4 & 5/16	5/16 & 3/8	5/16 & 3/8	9
W 73	39/64 & 23/32	5/16 & 3/8	3/8 & 7/16	3/8 & 7/16	11
W 74	23/32 & 53/64	3/8 & 7/16	7/16 & 1/2	7/16 & 1/2	11 1/2
W 77	53/64 & 59/64	7/16 & 1/2	1/2 & 9/16	1/2 & 9/16	12 1/2
W 76	59/64 & 1 1/64	1/2 & 9/16	9/16 & 5/8	9/16 & 5/8	13 1/2
W 79	1 1/64 & 1 7/64	9/16 & 5/8	5/8 & 11/16	5/8 & 11/16	15
W 87	1 7/64 & 1 19/64	5/8 & 3/4	11/16 & 7/8	11/16 & 7/8	17
W 89	1 31/64 & 1 143/64	7/8 & 1	1 & 1 1/8	1 & 1 1/8	19 5/8

British Box Wrench Sets — Long Type

The WB 96 Set contains six wrenches W 70 to W 79, with a range of British sizes from 2 BA to 5/8" Whitworth, and 1/32" to 1 1/16" B.S.F. The set comes complete in heavy fibre box.

WB 95 Set contains five wrenches W 71 to W 79 inclusive, with openings from 1/8" to 5/8" Whitworth and 3/16" to 1 1/16" B.S.F. Packed in fibre box.

British Short Type Box Wrenches Both Ends Offset



These handy short type box wrenches are ideal for getting into confined spaces. The heads are correctly offset with 12 point openings and plated.

No.	Opening of Wrench Across Flats in Common Fractions	B.S.W. & B.A. Series	B.S. & B.S.F.	Length
W 176	11/32 & 29/64	1/8 & 3/16	3/16 & 1/4	4 1/4
W 176A	21/64 & 29/64	2BA & 3/16	x & 1/4	4 1/4
W 177	17/32 & 39/64	1/4 & 5/16	5/16 & 3/8	5
W 178	39/64 & 23/32	5/16 & 3/8	3/8 & 7/16	5 3/8
W 179	23/32 & 53/64	3/8 & 7/16	7/16 & 1/2	6 1/4

British WB 190 Box Wrench Set

The WB 190 Set is made up of one each of Nos. W 176, W 177, W 178 and W 179. Packed in cardboard box. WB 190 C packed in clip.

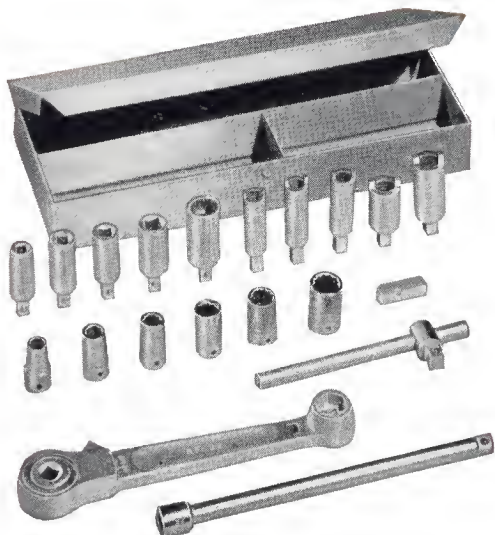


Refrigeration Socket Wrench Sets

RF 80 Set

Contains 20 Pieces

Weight 2 lbs. 2 ozs.



An up-to-the-minute, pocket size kit of Refrigerator Sockets and Ratchet for use on practically any repairs requiring tools of this type. All pieces are made of selected steels and heavily plated. One each of the following 20 pieces are packed in a sturdy metal box which measures $7\frac{1}{2}$ " x $3\frac{1}{4}$ " x $1\frac{1}{8}$ ". Box No. VS 30.

No.	Description
V 8	$\frac{1}{4}$ " Hexagon Socket ($\frac{1}{4}$ " Square Drive)
V 9	$\frac{9}{32}$ " Hexagon Socket ($\frac{1}{4}$ " Square Drive)
V 10	$\frac{5}{16}$ " Hexagon Socket ($\frac{1}{4}$ " Sq. Dr.)
V 11	$\frac{11}{32}$ " Hexagon Socket ($\frac{1}{4}$ " Sq. Dr.)
V 12	$\frac{3}{8}$ " Hexagon Socket ($\frac{1}{4}$ " Sq. Dr.)
V 14	$\frac{7}{16}$ " Hexagon Socket ($\frac{1}{4}$ " Sq. Dr.)
V 17	Sliding 'T' Handle, $4\frac{1}{2}$ " long ($\frac{1}{4}$ " Sq. Dr.)
V 606	Extension, 6" long ($\frac{1}{4}$ " Square Drive)
RF 2	Valve Stem Socket ($\frac{1}{4}$ " Male Drive)
RF 3	Valve Stem Socket ($\frac{1}{4}$ " Male Drive)
RF 4	Valve Stem Socket ($\frac{1}{4}$ " Male Drive)
RF 5	Valve Stem Socket ($\frac{1}{4}$ " Male Drive)
RF 6	Packing Gland Nut Socket ($\frac{1}{4}$ " Male Drive)
RF 16	Packing Gland Nut Socket ($\frac{1}{4}$ " Male Drive)
RF 71	Packing Gland Nut Socket ($\frac{1}{4}$ " Male Drive)
RF 72	Packing Gland Nut Socket ($\frac{1}{4}$ " Male Drive)
RF 73	Packing Gland Nut Socket ($\frac{1}{4}$ " Male Drive)
RF 67	Kerotest Valve Packing Skt. ($\frac{1}{4}$ " Male Dr.)
RF 49	$\frac{1}{4}$ " x $\frac{1}{4}$ " Adaptor
RF 22	Ratchet Handle ($\frac{1}{4}$ " Sq. Ratchet Opening)

RF 85 Set contains:

RF 80 Set in metal box, as above

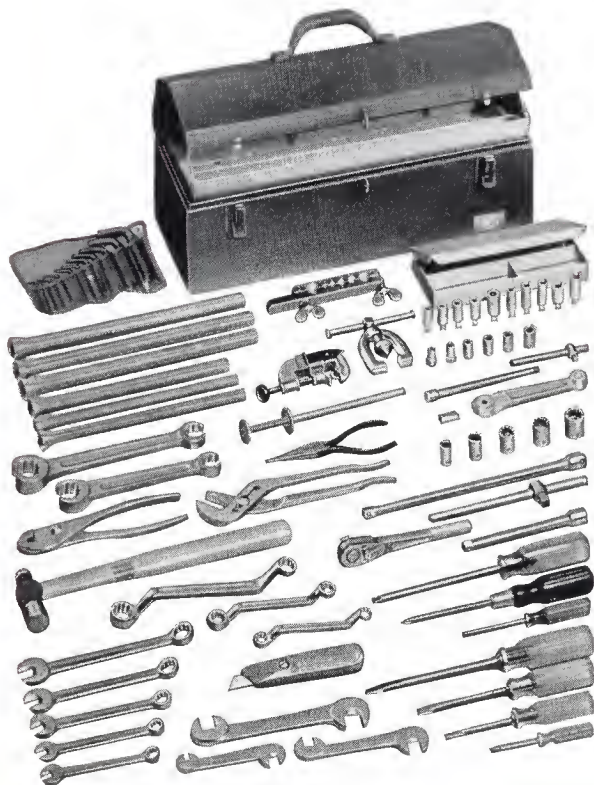
W 11 LR Set in leatherette roll, page 39

RF 66 Tube Bender Set, page 73:

Box No. 1303 B.

RF 85 Set — 73 Pieces

Weight 25 lbs.



$\frac{3}{8}$ " Sq. Dr. Sockets And Attachments

T 4	Ext. 6" long
T 5	Ext. 11" long
T 14	$\frac{7}{16}$ " D.H. Socket
T 16	$\frac{1}{2}$ " " "
T 18	$\frac{9}{16}$ " " "
T 20	$\frac{5}{8}$ " " "
T 22	$\frac{11}{16}$ " " "
T 57	Rev. Ratchet
T 36	Sliding T Handle

Double Offset Box Wrenches

Short Type — Double Hex.

2384	$\frac{3}{8}$ " & $\frac{7}{16}$ "
2386	$\frac{1}{2}$ " & $\frac{9}{16}$ "
2388	$\frac{7}{8}$ " & $\frac{3}{4}$ "

Combination (Tu-Type)

3112	$\frac{3}{8}$ "
3114	$\frac{7}{16}$ "
3116	$\frac{1}{2}$ "
3118	$\frac{9}{16}$ "
3120	$\frac{5}{8}$ "

Right Angle Wrenches

2723	$\frac{3}{8}$ " & $\frac{7}{16}$ "
2725 B	$\frac{1}{2}$ " & $\frac{9}{16}$ "
2729 RA	$\frac{5}{8}$ " & $\frac{3}{4}$ "

Pliers

B25	Long Nose, 6"
B 8	Slip Joint, 8"
258	Pump Plier, 11"

Screw Drivers

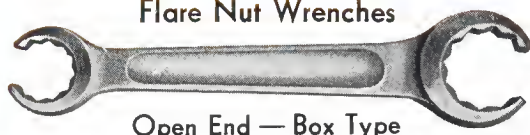
001	Pocket Size, 2" blade
003	Electricians', 3" blade
04	Round Shank, 4" blade
06	Round Shank, 6" blade
CP 2	Phillips'
CP 3	Phillips'

Miscellaneous

RF 46	Flaring Tool
RF 54	Flare Nut Wrench, $\frac{3}{4}$ " and 1"
RF 55	Flare Nut Wrench, $\frac{7}{8}$ " and $1\frac{1}{8}$ "
RF 59	Tube Cutter
K 6	Holding Tool, 6"
212 I	B.P. Hammer, $\frac{1}{2}$ lb.
199	Shap Knife

Refrigeration Tools

Flare Nut Wrenches



Open End — Box Type

These open end, box type wrenches have been designed especially for making flare nut adjustments. They are drop-forged of Bonaloy Steel, chromium plated with polished heads. They are long, thin and with panelled handles, permitting a firm, comfortable grip. Heads have double hexagon openings.

No.	Openings	Length
RF 54 A	$\frac{3}{4}$ " & $\frac{7}{8}$ "	8"
RF 54	$\frac{3}{4}$ " & 1"	7"
RF 55 A	$\frac{7}{8}$ " & 1"	9 $\frac{1}{2}$ "
RF 55	$\frac{7}{8}$ " & 1 $\frac{1}{8}$ "	9 $\frac{1}{2}$ "



Open End — Box Type

Drop-forged of alloy Steel these two wrenches are especially for copper tube fittings with $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ " and $\frac{9}{16}$ " hexagon. The wrenches are fully chrome plated with polished heads, have panelled handles and double hexagon openings.

No. 2618 is designed specially for the removal of the copper tubing flare nut on the back of the expansion valve on all Kelvinator models previous to the hermetically sealed units. Heads are at 15° angles.

No.	Openings	Length
2612	$\frac{3}{8}$ " & $\frac{1}{2}$ "	5"
2618	$\frac{7}{16}$ " & $\frac{9}{16}$ "	5"

Spinner Wrenches



Designed especially for reaching small nuts that can be handled only with exceptionally small sockets. Made like a screw driver with a hexagon socket on the end that grips the nut firmly. Shanks and sockets have plated finish. The composition handles are fluted for a firm grip.

No.	Hexagon Opening	Overall Length	Drill Depth
CH 06	$\frac{3}{16}$ "	6"	2 $\frac{1}{4}$ "
CH 08	$\frac{1}{4}$ "	6"	2 $\frac{1}{4}$ "
CH 10	$\frac{5}{16}$ "	6"	2 $\frac{1}{4}$ "
CH 11	1 $\frac{1}{32}$ "	6"	2 $\frac{1}{4}$ "
CH 12	$\frac{3}{8}$ "	6"	5"
CH 14	$\frac{7}{16}$ "	7 $\frac{1}{8}$ "	5"
CH 16	$\frac{1}{2}$ "	7 $\frac{1}{8}$ "	5"

Reversible Ratchet No. RF 45



This ratchet is primarily designed for refrigeration work. It has an easy action, is light in weight, has trim lines, is strong and can be instantly reversed by a touch—of the thumb. The ratchet opening is $\frac{1}{4}$ " square, the openings in the handle are $\frac{3}{16}$ " and $\frac{1}{4}$ " square and $\frac{1}{2}$ " hexagon socket. The tool is drop forged and plated. Overall length 6".

Non-Reversible Ratchet



This type of ratchet, made with four different size ratchet openings, is forged of Bonaloy Steel with plated finish. The ratchet is fully enclosed to keep out all dust and dirt.

They are specially adapted to work on small refrigerant cylinders, shut-off and reducing valves, compressors, motors, etc.

No.	Ratchet Opening Square	Handle Openings Square	Handle Opening Hexagon	Length
RF 21	$\frac{3}{16}$ "	$\frac{3}{16}$ " & $\frac{1}{4}$ "	$\frac{1}{2}$ "	6"
RF 22	$\frac{1}{4}$ "	$\frac{3}{16}$ " & $\frac{1}{4}$ "	$\frac{1}{2}$ "	6"
RF 23	$\frac{5}{16}$ "	$\frac{3}{16}$ " & $\frac{5}{16}$ "	$\frac{1}{2}$ "	6"
RF 25	$\frac{3}{8}$ "	$\frac{3}{16}$ " & $\frac{1}{4}$ "	$\frac{1}{2}$ "	6"

RF 7 Valve Stem Socket

RF 7 Valve Stem Socket. This $\frac{1}{4}$ " male drive socket with $\frac{3}{8}$ " square opening is especially designed for use on Frigidaire valves.

Refrigeration Tools

Open End Wrench for Superior Packless Valve



A single head service wrench forged of Bonaloy Steel, chrome-plated and with polished head designed especially to fit the hexagon on the auxiliary body of the Superior Diaphragm Packless Valve.

No.	Opening	Length	Thickness of Head
1964	2"	12 1/4"	5/16"

Right Angle Wrenches



Openings in the most necessary sizes for refrigeration service work. Drop-forged of Bonaloy Steel, fully chrome-plated and with polished heads.

No.	Size Openings	Length	Thickness of Heads
2723	3/8" & 7/16"	4 1/4"	7/32"
2725 B	1/2" & 9/16"	5 1/2"	15/64"
2729 RA	5/8" & 3/4"	7 1/2"	5/16"
2732 A	3/4" & 1"	9"	3/8"



Packing Gland Nut Sockets

"T" Handle Type ● Not guaranteed

No.	Prong Depth	Prong Width	Inside Diom.	Outside Diom.	Overall Length
RF 17	1/8"	7/64"	21/64"	15/32"	2"
RF 18	1/8"	7/64"	21/64"	9/16"	2"



Valve Stem Sockets "T" Handle Type

No.	Size Square Opening	Outside Diameter		Length
		Nose	Shank	
RF 10	3/16"	27/64"	1/2"	1 7/8"
RF 11	7/32"	27/64"	1/2"	1 7/8"
RF 12	1/4"	1/2"	1/2"	1 7/8"
RF 13	5/16"	9/16"	9/16"	1 7/8"
RF 14	3/8"	5/8"	5/8"	1 7/8"

1/4" Male Drive



Designed for use with No. RF 22 and No. RF 45 ratchets or any ratchet handle having 1/4" opening. ● Not guaranteed.

No.	Prong Depth	Prong Width	Inside Diom.	Outside Diom.	Overall Length
RF 6	1/8"	1/8"	3/8"	5/8"	1 3/8"
RF 16	1/8"	1/8"	21/64"	15/32"	1 3/4"
RF 71	3/32"	3/32"	5/16"	7/16"	1 5/8"
RF 72	1/8"	1/8"	21/64"	15/32"	1 11/16"
RF 73	1/8"	1/8"	3/8"	5/8"	1 11/16"

1/4" Male Drive



For use with any ratchet handle having 1/4" opening and Gray-Bonney ratchets Nos. RF 22, and RF 45.

No.	Size Square Opening	Outside Diameter		Length
		Nose	Shank	
RF 2	3/16"	27/64"	1/2"	1 3/8"
RF 5	7/32"	1/2"	1/2"	1 3/8"
RF 3	1/4"	1/2"	1/2"	1 3/8"
RF 4	5/16"	9/16"	9/16"	1 3/8"



Kerotest Valve Packing Nut Socket 1/4" Male Drive

These sockets have been specially designed for repairs and adjustments on Kerotest valves.

No.	Obround Opening		Outside Diameter	Length
	Length	Width		
RF 67	1/2"	3/8"	5/8"	1 9/16"



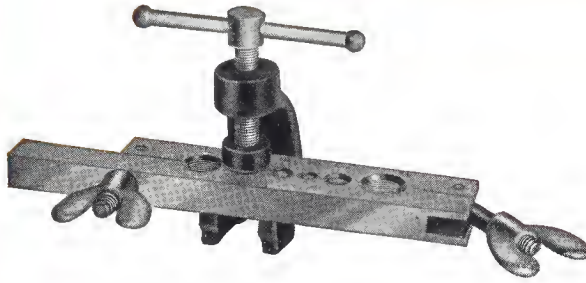
Ratchet Plug Adaptors

For use with Nos. RF 22 and RF 45 ratchets Made of Bonaloy Steel, heat-treated and plated.

No.	Plug End	Drive End
RF 49	1/4"	1/4"
RF 41	1/4"	3/8"

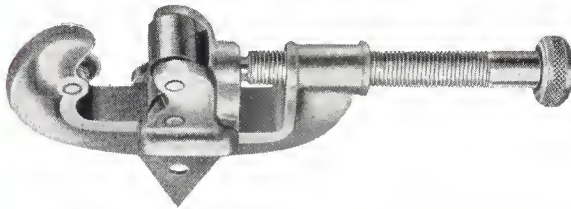
Miscellaneous Tools

No. RF 46 Flaring Tool



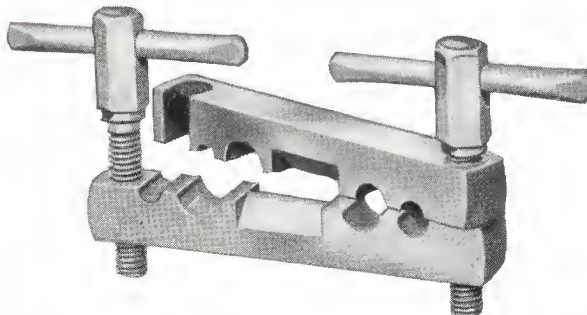
A simple, fast, efficient tool for quickly and accurately flaring copper and other tubing having $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ " O.D. Oversize wing nuts securely lock tubing in holes threaded to prevent slipping. Open side flaring yoke attaches instantly to flaring bars. The flaring head is of the self-centering type, assuring easy, perfect flaring. A fine tool, reasonably priced for working in close quarters on gas lines, etc. Net weight $2\frac{1}{4}$ lbs.

No. RF 99 Tube Cutter



A compact, efficient tube cutter for all tubing from $\frac{1}{8}$ " to 1" O.D. Body is an alloy die casting. Wafer-tapered, hardened cutting blade makes cutting easy and with practically no burr. The slide-lock safety reamer opens instantly and protects the hands when not in use. It may be safely carried in your pocket. Net weight $\frac{1}{2}$ lb.

No. RF 47 Pinch-Off Tool



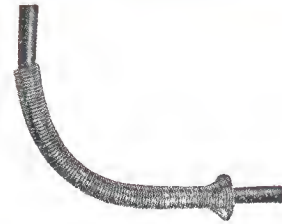
The primary use of this tool is in refrigeration service work and is used to pinch off refrigeration tubing as well as restoring the tubing to correct shape and diameter after the service work has been completed.

The outstanding feature of this handy tool is the quick-operating freeing and locking action. This tool is made for use with $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ " and $\frac{1}{2}$ " inch tubing.

A Tool For Every Need

Tube Benders

External Type



Ideal for bending copper and other tubing by hand to any desired shape without collapsing the tube. Made of special, oil-hardened spring steel, cadmium plated. The belled end assures ease in removing the tubing after the bend has been made.

No.	For Size Tubing
RF 60	$\frac{1}{4}$ "
RF 61	$\frac{5}{16}$ "
RF 62	$\frac{3}{8}$ "
RF 63	$\frac{7}{16}$ "
RF 64	$\frac{1}{2}$ "
RF 65	$\frac{5}{8}$ "

No. RF 66 Tube Bender Set

Every service man should have a complete set of tube benders in his kit. The set consists of one each of the above sizes.

No. 999 File Holder



Here is the answer to your file handle problems. This collet type light weight alloy handle fits any flat tang file in lengths from six to sixteen inches. This collet design allows quick changing of files. To use, insert tang in collet, twist handle, locking it securely on file. Easily removeable. Length $4\frac{1}{4}$ ", diameter 1". This new handle will be appreciated by mechanics.

GRAY-BONNEY Comparison Chart

New and Old American Standard Square and Hexagon Bolts and Nuts as related to nominal wrench openings

Nominal Wrench Opening	REGULAR SERIES				HEAVY SERIES				LIGHT SERIES		FINISHED SERIES			For Hex Head Cap Screws		For Set Screws Diam. Screws	For Machine Screw Nuts and Stove Bolt Nuts
	For Nuts Size Bolts	For Nuts Size Bolts	For Bolts Diam.	For Bolts Diam.	For Nuts Size Bolts	For Nuts Size Bolts	For Bolts Diam.	For Bolts Diam.	For Nuts Size Bolts	For Nuts Size Bolts	For Nuts & Thick Nuts Size Bolts	For Bolts Diam.	For Heavy Bolts Diam.	NEW	OLD	OLD and NEW	OLD and NEW
	NEW	OLD	NEW	OLD	NEW	OLD	NEW	OLD	NEW	OLD	NEW	NEW	NEW				
5/32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	No. 0 & 1
3/16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	No. 10	No. 2 & 3
1/4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1/4	No. 4
5/16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5/16	No. 5 & 6
11/32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	No. 8
3/8	.....	.....	*1/4	1/4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3/8	No. 10
7/16	1/4	1/4	1/4	.....	.....	.....	.....	.....	.....	1/4	1/4	1/4	.....	1/4	1/4	7/16	No. 12 & 1/4
1/2	.....	.....	5/16	5/16	1/4	1/4	.....	1/4	.....	5/16	5/16	5/16	.....	5/16	5/16	1/2	.....
9/16	5/16	5/16	3/8	3/8	5/16	.....	.....	.....	.....	3/8	3/8	3/8	.....	3/8	3/8	9/16	5/16
19/32	.....	.....	.....	.....	.....	5/16	.....	5/16	.....	.....	.....	.....	.....	.....	.....	.....	.....
5/8	3/8	3/8	7/16	7/16	.....	.....	.....	.....	.....	7/16	.....	7/16	.....	7/16	7/16	5/8	3/8
11/16	.....	.....	.....	.....	3/8	3/8	.....	3/8	.....	.....	7/16	.....	.....	.....	.....	.....	.....
3/4	7/16	7/16	1/2	1/2	7/16	.....	.....	.....	.....	1/2	1/2	1/2	.....	1/2	1/2	3/4	.....
25/32	.....	.....	.....	.....	.....	7/16	.....	7/16	.....	.....	.....	.....	.....	.....	.....	.....	.....
13/16	1/2	1/2	9/16	.....	.....	.....	.....	.....	.....	.....	.....	9/16	.....	9/16	9/16	.....	.....
7/8	9/16	9/16	.....	9/16	1/2	1/2	1/2	1/2	.....	9/16	9/16	.....	1/2	.....	5/8	7/8	.....
15/16	.....	.....	5/8	5/8	9/16	9/16	.....	9/16	.....	5/8	5/8	5/8	.....	5/8	.....	.....	.....
1	5/8	5/8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3/4	1	.....
1 1/16	.....	.....	.....	.....	5/8	5/8	5/8	5/8	.....	3/4	.....	.....	5/8	.....	.....	.....	.....
1 1/8	3/4	3/4	3/4	3/4	.....	.....	.....	.....	.....	.....	3/4	3/4	.....	3/4	7/8	1 1/8	.....
1 1/4	.....	.....	.....	.....	3/4	3/4	3/4	3/4	.....	7/8	.....	.....	3/4	.....	.....	1 1/4	.....
1 5/16	7/8	7/8	7/8	7/8	.....	.....	.....	.....	.....	.....	7/8	7/8	.....	7/8	1	.....	.....
1 3/8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1 3/8	.....
1 7/16	.....	.....	.....	.....	7/8	7/8	7/8	7/8	.....	1	.....	.....	7/8	.....	.....	.....	.....
1 1/2	1	1	1	1	.....	.....	.....	.....	.....	.....	1	1	.....	1	1 1/8	1 1/2	.....
1 5/8	.....	.....	.....	.....	1	1	1	1	.....	1 1/8	.....	.....	1	.....	.....	.....	.....
1 11/16	1 1/8	1 1/8	1 1/8	1 1/8	.....	.....	.....	.....	.....	.....	1 1/8	1 1/8	.....	1 1/8	1 1/4	.....	.....
1 13/16	.....	.....	.....	.....	1 1/8	1 1/8	1 1/8	1 1/8	.....	1 1/4	.....	.....	1 1/8	.....	.....	.....	.....
1 7/8	1 1/4	1 1/4	1 1/4	1 1/4	.....	.....	.....	.....	.....	.....	1 1/4	1 1/4	.....	1 1/4	.....	.....	.....
2	.....	.....	.....	.....	1 1/4	1 1/4	1 1/4	1 1/4	.....	1 3/8	.....	.....	1 1/4	.....	.....	.....	.....
2 1/16	1 3/8	1 3/8	1 3/8	1 3/8	.....	.....	.....	.....	.....	.....	1 3/8	1 3/8	.....	1 3/8	.....	.....	.....
2 3/16	.....	.....	.....	.....	1 3/8	1 3/8	1 3/8	1 3/8	.....	1 1/2	.....	.....	1 3/8	.....	.....	.....	.....
2 1/4	1 1/2	1 1/2	1 1/2	1 1/2	.....	.....	.....	.....	.....	.....	1 1/2	1 1/2	.....	1 1/2	.....	.....	.....
2 3/8	.....	.....	.....	.....	1 1/2	1 1/2	1 1/2	1 1/2	.....	.....	.....	.....	1 1/2	.....	.....	.....	.....
2 7/16	1 5/8	1 5/8	1 5/8	1 5/8	.....	.....	.....	.....	.....	.....	1 5/8	1 5/8	.....	.....	.....	.....	.....
2 9/16	.....	.....	.....	.....	1 5/8	1 5/8	1 5/8	1 5/8	.....	.....	.....	.....	1 5/8	.....	.....	.....	.....
2 5/8	.....	1 3/4	1 3/4	1 3/4	.....	.....	.....	.....	.....	.....	1 3/4	1 3/4	.....	.....	.....	.....	.....
2 3/4	.....	.....	.....	.....	1 3/4	1 3/4	1 3/4	1 3/4	.....	.....	.....	.....	1 3/4	.....	.....	.....	.....
2 13/16	.....	1 7/8	1 7/8	1 7/8	.....	.....	.....	.....	.....	.....	1 7/8	1 7/8	.....	.....	.....	.....	.....
2 15/16	.....	.....	.....	.....	1 7/8	1 7/8	1 7/8	1 7/8	.....	.....	.....	.....	1 7/8	.....	.....	.....	.....
3	.....	2	2	2	.....	.....	.....	.....	.....	.....	2	2	.....	.....	.....	.....	.....
3 1/8	.....	.....	.....	.....	2	2	2	2	.....	.....	.....	.....	2	.....	.....	.....	.....
3 3/8	.....	2 1/4	2 1/4	2 1/4	.....	.....	.....	.....	.....	.....	2 1/4	2 1/4	.....	.....	.....	.....	.....
3 1/2	.....	.....	.....	.....	2 1/4	2 1/4	2 1/4	2 1/4	.....	.....	.....	.....	2 1/4	.....	.....	.....	.....
3 3/4	.....	2 1/2	2 1/2	2 1/2	.....	.....	.....	.....	.....	.....	2 1/2	2 1/2	.....	.....	.....	.....	.....
3 7/8	.....	.....	.....	.....	2 1/2	2 1/2	2 1/2	2 1/2	.....	.....	.....	.....	2 1/2	.....	.....	.....	.....
4 1/8	.....	2 3/4	2 3/4	2 3/4	.....	.....	.....	.....	.....	.....	2 3/4	2 3/4	.....	.....	.....	.....	.....
4 1/4	.....	.....	.....	.....	2 3/4	2 3/4	2 3/4	2 3/4	.....	.....	.....	.....	2 3/4	.....	.....	.....	.....
4 1/2	.....	3	3	3	.....	.....	.....	.....	.....	.....	3	3	.....	.....	.....	.....	.....
4 5/8	.....	.....	.....	.....	3	3	3	3	.....	.....	.....	.....	3	.....	.....	.....	.....
5	.....	.....	3 1/4	.....	3 1/4	3 1/4	.....	3 1/4	.....	.....	.....	.....	.....	.....	.....	.....	.....
5 3/8	.....	.....	3 1/2	.....	.....	.....	.....	3 1/2	.....	.....	.....	.....	.....	.....	.....	.....	.....
5 3/4	.....	.....	3 3/4	.....	3 3/4	3 3/4	.....	3 3/4	.....	.....	.....	.....	.....	.....	.....	.....	.....
6 1/8	.....	.....	4	.....	4	4	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....

* Square Only



Comparison Chart of British Standards

Nominal Actual Size A/F	Nearest Fraction	British Standard B.S.	British Standard Fine B.S.F.	British Standard Whitworth B.S.W.	British Association B.A.
.062	$\frac{1}{16}$				15
.069	$\frac{1}{16}$				14
.083	$\frac{5}{64}$				13
.090	$\frac{3}{32}$				12
.103	$\frac{3}{32}$				11
.117	$\frac{7}{64}$				10
.131	$\frac{1}{8}$				9
.152	$\frac{5}{32}$				8
.172	$\frac{11}{64}$				7
.193	$\frac{3}{16}$				6
.220	$\frac{7}{32}$				5
.248	$\frac{1}{4}$				4
.282	$\frac{9}{32}$				3
.324	$\frac{21}{64}$				2
.338	$\frac{11}{32}$	$\frac{3}{16}$		$\frac{1}{8}$	
.365	$\frac{23}{64}$				1
.413	$\frac{13}{32}$		$\frac{7}{32}$		0
.445	$\frac{29}{64}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{16}$	
.525	$\frac{17}{32}$	$\frac{5}{16}$	$(\frac{9}{32}) \frac{5}{16}$	$\frac{1}{4}$	
.600	$\frac{39}{64}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{5}{16}$	
.710	$\frac{23}{32}$	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{3}{8}$	
.820	$\frac{53}{64}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{7}{16}$	
.920	$\frac{59}{64}$	$\frac{9}{16}$	$\frac{9}{16}$	$\frac{1}{2}$	
1.010	$\frac{11}{64}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{9}{16}$	
1.100	$\frac{17}{64}$	$\frac{11}{16}$	$\frac{11}{16}$	$\frac{5}{8}$	
1.200	$\frac{113}{64}$	$\frac{3}{4}$	$(\frac{13}{16}) \frac{3}{4}$	$\frac{11}{16}$	
1.300	$\frac{119}{64}$	$\frac{7}{8}$	$\frac{7}{8}$	$\frac{3}{4}$	
1.390	$\frac{125}{64}$	$\frac{15}{16}$	$\frac{15}{16}$	$\frac{13}{16}$	
1.480	$\frac{131}{64}$	1	1	$\frac{7}{8}$	
1.580	$\frac{119}{32}$			$\frac{15}{16}$	
1.670	$\frac{143}{64}$	$\frac{11}{8}$	$\frac{11}{8}$	1	
1.860	$\frac{155}{64}$	$\frac{11}{4}$	$\frac{11}{4}$	$\frac{11}{8}$	
2.050	$\frac{21}{16}$	$\frac{13}{8}$	$\frac{13}{8}$	$\frac{11}{4}$	
2.220	$\frac{27}{32}$	$\frac{11}{2}$	$\frac{11}{2}$	$\frac{13}{8}$	
2.410	$\frac{213}{32}$	$\frac{15}{8}$	$\frac{15}{8}$	$\frac{11}{2}$	
2.580	$\frac{219}{32}$	$\frac{13}{4}$	$\frac{13}{4}$	$\frac{15}{8}$	
2.760	$\frac{249}{64}$	2	2	$\frac{13}{4}$	
3.020	$\frac{31}{32}$			$\frac{17}{8}$	
3.150	$\frac{35}{32}$	$\frac{21}{4}$	$\frac{21}{4}$	2	



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